

Sustainable European Healthcare Infrastructure: innovation in procurement, planning and design for a green future

Bologna, Italy, 12-14 October 2011

This year's European Health Property Network workshop is being organised in partnership with LCB-HEALTHCARE, a European Lead Market public procurement network that aims to stimulate innovation for low carbon, sustainable, green solutions in the healthcare building sector. The hosts for the 2011 workshop are the Società Italiana dell'Architettura e dell'Ingegneria per la Sanità (SIAIS; Italian Society for Healthcare Architecture and Engineering).

The EU Commission's 2020 Strategy speaks of an urgent need for Europe's economies to achieve 'smart, sustainable, inclusive growth', and in particular emphasises a need to shift towards a more resource efficient and low-carbon economy. As a major consumer of resources and hydrocarbons, the healthcare built environment has a particular responsibility in this area. Healthcare infrastructure can lead by:

- Contributing to reduction of greenhouse gas emissions
- Increasing use of renewable energy
- Improving energy efficiency
- Rethinking transport systems and the food supply chain
- Innovating in relation to procurement processes
- Offering leadership in setting the agenda for high quality planning and design

The 2011 workshop will present exemplar projects and case studies in these areas, but also examine the evidence for and against the effectiveness of current policy initiatives.

Workshop Sponsor



EuHPN is grateful to Siram S.p.a., the sponsor of our 2011 workshop. Siram is one of Italy's leading companies working in the field of energy services and innovative technologies for the healthcare sector, public administration and industry. Siram's Mission has always been committed to improving energy efficiency, reducing atmosphere emissions and energy wastage and investing in renewable energy sources development. Visit Siram at www.siram.it.

Wednesday 12th October

The Europe 2020 challenge, and the response of healthcare infrastructure

| Time | Event | Speaker(s) and organisations |
|---------------|---|---|
| 09.00 | EuHPN Board meeting | |
| 11.00 | Registration opens | |
| 13.00 – 14.00 | Welcome buffet lunch | |
| 14.00 – 14.30 | Welcome and introductions | John Cole, Chair, European Health Property Network (EuHPN) Davide Sgarzi, Assessorato Politiche per la Salute, Direzione Sanità e Politiche sociali, Servizio Sanità pubblica, Emilia Romagna Region Daniela Pedrini, President, Italian Society for Healthcare Engineering and Architecture (SIAIS) Fergus Harradence, Deputy Director, Innovation Policy, Department for Business, Innovation and Skills, UK |
| 14.30 – 15.10 | The challenges of Europe 2020 and the future for sustainable health infrastructure development | Barrie Dowdeswell, Research Director, European Centre for Healthcare Assets and Architecture |
| 15.10 – 15.40 | Architectural competitions as a procurement method for high quality health care facility design | Hennu Kjsik, Architect Director, Harris Kjsik Architects |
| 15.40 – 16.00 | Coffee break | |
| 16.00 – 16.30 | Innovation procurement in Europe: how public procurement can move markets and create better conditions for low carbon healthcare infrastructure | Fergus Harradence, Deputy Director, Innovation Policy, Department of Business, Industry and Skills, UK |
| 16.30 – 17.00 | Creating Successful Therapeutic Environments | Benedict Zucchi, Architect Director, BDP |
| 17.15 – 18.15 | EuHPN member meeting | <i>This meeting is open to representatives of EuHPN member organisations.</i> |
| 17.15 – 17.45 | The realities of planning and delivering sustainable healthcare infrastructure – lessons from the NHS Sustainable Delivery Unit | David Pencheon (Director) and Sonia Roschnik (Operational Director), NHS Sustainable Development Unit, UK |
| | | <i>Note: This is a video presentation, which will also be shown during lunch on Thursday 13th October</i> |
| 19.00 – 20.00 | Drinks reception: Aemilia hotel – venue to be announced | |
| 20.00 - | Participants free to arrange dinner in Bologna or at the Aemilia Hotel. | |

Thursday 13th October

Case studies, exemplar projects, lessons from research

| Time | Event | Speaker(s) and organisations |
|--|---|--|
| Plenary Session 1 LCB-HEALTHCARE <i>Procuring better building solutions</i> Chair: Fergus Harradence, Deputy Director, Innovation Policy, Department for Business, Innovation and Skills, UK | | |
| 09.00 – 09.20 | The LCB-HEALTHCARE project: progress, findings and the future | Angus Hunter, Director, Optimat Ltd, UK |
| 09.20 – 09.50 | UK pilot project: Ultra Efficient Lighting at Rotherham Hospital Trust, UK | Andrew Bissell, Lighting Director, Cundall Steph Holmes, Head of Procurement, Rotherham NHS Foundation Trust |
| 09.50 – 10.10 | ‘Green Health Care Öresund’: a Swedish/Danish collaboration for sustainable ward environments | Daniel Eriksson, Chief Consultant, TEM, Sweden |
| 10.10 – 10.30 | Netherlands pilot project: Erasmus Hospital MC | Joram Nauta, Dutch Centre for Healthcare Assets, TNO |
| 10.30 – 11.00 | Towards a good practice guide for innovation procurement in low carbon healthcare infrastructure. | Gaynor Whyles, Consultant Programme Manager, Dept. Of Business, Innovation & Skills/Dept. of Health, UK (JERA Consulting) |
| 11.00 – 11.30 | Coffee break | |
| Plenary Session 2 Chair: Jonathan Erskine, Executive Director, EuHPN | | |
| 11.30 – 12.00 | How health service leaders can advance sustainable healthcare infrastructure and influence low carbon design | Anja Leetz, Executive Director, Health Care Without Harm (Europe) |
| 12.00 – 12.30 | Green design from Holland: Erasmus Medical Centre's energy reduction strategy in current and replacement buildings. | Liesbeth van Heel and Jan Van Velzen, Erasmus Medical Centre, Rotterdam |
| 12.30 – 13.00 | Reducing energy consumption in Norwegian hospitals by 50%. The importance of studying functions and activity schedules to reduce energy consumption in hospitals. | Trond Thorgeir Harsem, Vice President - Research and Development Department at Norconsult AS Robert Martinez Tarald Rohde, Senior Advisor, SINTEF Technology and Society, Health |
| 13.00 – 14.00 | Buffet Lunch | |

| Parallel Session A | | Parallel Session B | |
|---|---|--|--|
| Chair: Jonathan Erskine, Executive Director, EuHPN | | Chair: John Cole, Chair, EuHPN | |
| 14.00 – 14.30 | ❖ <i>Occupancy analytics: A study in hospital space and equipment utilisation</i> Matthew Bacon, Conclude Consultancy Ltd, UK | ❖ <i>Accelerating investments for energy efficiency, especially for the use of Renewable Energy Sources in Hospitals and health facilities</i> Simona Agger, RES-HOSPITALS Project Manager, Asti ASL Coordinating Partner | |
| 14.30 – 15.00 | ❖ <i>What the hospital sector could learn from ongoing research on energy effective buildings</i> Sidsel Jerkø, Research Scientist, SINTEF Building and Infrastructure, Norway | ❖ <i>"ÖkoKauf Wien" – a programme for green public procurement; example interior construction</i> Michael Grimburg, "ÖkoKauf Wien", Austria; Head of the Work Group: interior construction | |
| 15.30 – 15.30 | ❖ <i>Energy saving in Polish healthcare infrastructure: a case study from Rydygier Regional Hospital in Krakow</i> Witold Poniklo, Director, Rydygier Hospital, Krakow, Poland | ❖ <i>Sustainability in a small healthcare infrastructure can be in a time of super-hospitals: the IRCCS 'Giovanni Paolo II' in Bari, Italy</i> Efthimia Pantzartzis, Healthcare Architect, Bari, Italy | |
| 15.30 – 16.00 | Coffee Break | | |
| Plenary Session 3 | | | |
| Chair: John Cole, EuHPN | | | |
| 16.00 – 16.30 | Sustainable approaches to acquiring, maintaining, refurbishing and disposing of healthcare capital assets. | Professor Andrew Price, Loughborough University, HaCIRIC Co-Director Sameedha Mahadkar, Research Associate, Loughborough University, HaCIRIC | |
| 16.30 – 17.00 | Infrastructures Matter: Climate change, social capital and interdisciplinary approaches to health and social care provisions | Professor Lena Dominelli, BIOPICCC Research Project, Institute of Hazard, Risk and Resilience, Durham University | |
| 17.00 – 17.30 | Panel discussion <i>Beyond Europe 2020 – what are the lessons for sustainable, low carbon healthcare infrastructure in the coming decades?</i> | <i>Panel members to be announced.</i> | |
| Break | | | |
| 19.00 – 20.15 | Tour of the <i>Teatro Anatomico</i> , Bologna University, and drinks reception in the cloisters of the <i>Archiginnasio</i> | <i>Venue: Biblioteca dell'Archiginnasio - Piazza Galvani 1 (directions on separate map)</i> | |
| 20.30 – 22.30 | EuHPN Workshop dinner | <i>Ristorante La Capriata (directions on separate map)</i> | |

Friday 14th October

Site Visits

The details of the site tours are being finalised, but there is likely to be a choice of the following locations:

Rimini



The Ospedale Infermi di Rimini has recently re-thought its energy strategy, and has embarked on a major programme of installing photovoltaic technology. The hospital also has to cope with a huge variation in demand: a local population of just over 300,000 increases to around 2 million during the summer holiday period. The consequences for the hospital's infrastructure – including surges in demand for energy – have required careful planning and innovative solutions.

Forlì

The Ospedale Morgagni, Forlì, is a 550 bed hospital noted for a radical approach to use of an automated drug dispensing system, including prescription, dosage and ward stock management. The Morgagni hospital has also instigated a highly sustainable cleaning regime that dispenses with many of the chemical products traditionally used in operating theatres, wards and public areas.



Ferrara



The Cona Hospital, Ferrara, makes use of high performance monitoring technology that ensures excellent results in terms of energy efficiency and energy economy. In particular, the central heating installation has a power rating of 38.5 MW (28 MW for high-efficiency hot water and 10.5 MW for the steam generators), and was built with cutting-edge technology that allows for a strong reduction of emissions into the atmosphere. The same principle of energy conservation has been used for the refrigeration unit, which has obtained a substantial saving in the use of electricity to produce chilled water.

Travel to the sites will start from the Aemilia hotel at 09.00.

We will make every effort to ensure that participants return from the site visits by 13.00, in time for a farewell lunch at the Aemilia hotel and to ensure that flight times can be respected.

Further information on site visits will be sent to participants in advance of the workshop, and there will be an opportunity to sign up for visits at registration.