



4th April 2005

Edge Debate No 24
'42': Energy step change- the view from the future'
- - 25 April 2005,
- 6pm
- **The Council Room at the ICE**

I am writing to invite you to join us at the 24th Edge Debate '42' at the Institution of Civil Engineers, 1 Great George Street, London W1 between 6.00pm and 8.00pm on 25 April 2005.

The debate is to ponder new thinking on the energy debate. We will be coming at it from a number of different directions. Our task will be to consider the confluence, what it means for the built environment and the operational costs of running (and designing) a home.

Speaking in the debate will be:

- **Walt Patterson**, Associate Fellow Chatham House, decentralised electricity champion and recently recognised as such by *Scientific American* magazine.
- **Matthew Rhodes**, Managing Director of Encraft, pioneering the development of new market mechanisms and informed homeowner participation in the energy market since 2003.
- **Joe Short**, Director of Dynamic Demand, a not-for-profit organisation promoting demand-side techniques to help integrate renewable energy onto the power grid.
- **David Hirst** inventor, consultant and Director of ResponsiveLoad Limited, which is pursuing technologies to enable a transformed electricity supply industry to support fulfilled low carbon living.

Walt will argue that the way we have 'liberalized' electricity is fundamentally misguided – that more intelligent liberalization and technical innovation offer a profoundly different way to use, produce and think about electricity in society, opening dramatic opportunities to improve performance and sustainability, not only in the UK but around the world.

Matthew will take be showing how innovation in the market is accelerated by thinking objectively about energy from the future, taking the homeowner's perspective.

Joe will sketch out the role that could be played by intelligent appliances, how they may reduce the amount of stand-by generation we require and how they could help address the problems posed by the intermittency of wind generation.

David will sketch out the nature of responsive technologies and their possible ramifications for our use of electricity and on the industry that provides it. He will share a vision of the future nature of the electricity device infrastructure in domestic and commercial buildings

The debate will be chaired by **Mark Whitby**, Director of Whitbybird and member of the Edge.

The Edge is an inter-institutional ginger group involving ICE, CIBE, RIBA and RISC. The Edge Debates are sponsored by the Carbon Trust in order to promote inter-disciplinary co-operation between architects and engineers. We are dedicated to changing our industry through intellectual debate, political lobbying and inter-institutional working and would be delighted if you could join us.

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I would be grateful if you could let me know as soon as possible whether or not you will be able to attend.

We hold regular debates of this nature. We obviously want to change the world and will be looking for ways we can help this process along. The presentations are short to allow time for everyone to speak. At the end of the debate we hope that you will continue the discussion over a glass of wine.

Yours sincerely

Adam Poole
Member of the Edge Committee

ABOUT THE EDGE

The Edge is an inter-institutional group which promotes interdisciplinary cooperation and has developed a particular interest in sustainability. It was launched in 1995 with sponsorship from the Arup Foundation and currently receives financial support from the Carbon Trust. Although not formally linked to the Institutions, the Edge is supported by The ICE, CIBSE; RIBA and RICS. The Edge holds regular invitation-only debates under Chatham House Rules and occasional special events such as this one). Synopses of the debates are available on our website www.at-the-edge.org.uk.