



## "Wireless Networks Environmental and Energy Efficiency Innovation"



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**Date:** Tuesday 7<sup>th</sup> June 2011

**Time:** 1000 to 1600 (Registration and refreshments 0900)

**Venue:** Royal Berkshire Conference Centre (Syndicate Room),  
Madejski Stadium, Reading, Berkshire, RG2 0FL, UK.  
Directions: [www.rbcc.org.uk/location.php](http://www.rbcc.org.uk/location.php)



The ICT KTN Wireless Technology and Spectrum Working Group, Mobile VCE and NMI are jointly hosting a workshop to investigate the system and component challenges, addressing "Environmental and Energy Efficiency Innovation in Wireless Networks"

Mobile and broadband traffic continue to grow at an exponential rate resulting in further capacity investment and the requirement for new spectrum and advanced air interfaces which provide greater spectral efficiency. Installing new capacity and providing improved coverage will yield environmental savings through better use and adoption of Mobile and Wireless ICT services.

Energy use and costs continue to rise, creating the need for future network energy efficiency to be significantly improved to ensure energy use does not increase at the same growth rate as traffic running over the networks. The introduction of new spectrally efficient air interfaces, presents new challenges in terms of energy efficiency and a key objective in developing new networks will be to drive down the energy consumption per bit transmitted, manage equipment more efficiently and leverage natural energy sources.

The objective of this event is to highlight some of the key themes that will emerge when addressing the needs of energy efficient networks; the speakers will present technologies that are well positioned to address this agenda. The panel sessions will then debate the challenges ahead for different stages of the value chain, from component technologies to systems.

MVCE and University research poster displays, relating to Wireless Network energy efficiency, will be on show during the breaks and over lunch.

In preparation for this workshop we strongly recommend reading the recently published ICT KTN paper on this topic:

[Energy Efficient Wireless Communications \(Green Radio Access Networks\)](#)

## AGENDA

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**09:00** Registration, networking and refreshments

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**10:00** Welcome and Introduction

Stuart Revell ICT KTN, Wireless Technology & Spectrum working group

Simon Fletcher, NEC and MVCE Green Radio Industrial Chairman

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**Network and System level challenges**

- Simon Fletcher, NEC *'Emerging Opportunities for Green Networks'*
  - David Lister, Vodafone *'Data Growth and Energy Consumption: Mitigation through Green Radio approaches'*
  - Gabrielle Giner, BT *'The challenges of carbon footprinting ICT services – a BT perspective'*
  - Keith Dickerson, Climate Associates (Chair ITU-T WP3/5 ICT & Climate Change) *'ICT Energy total cost of ownership'*
  - Panel session with speakers
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**12:30** Research poster displays, lunch and networking

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**14:00** Vital components enabling Energy Efficiency innovation

- Julian Hildersley, Nujira *'RF Power amplifier innovation'*
  - Martin Gostling, Radio Design *'Energy savings through network sharing'*
  - Mark Muegge, Cambridge Semiconductors *'Charger and power supply innovation'*
  - Gordon Povey, D-Light, *'Light based communication platforms as alternative to Radio connectivity in the home'*
  - Panel session with speakers and NMI
  - Refreshment break will be included in this session
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**16:00** Event closes

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## Profile of Organisers

### About Mobile VCE

Mobile VCE provides industrially-relevant, long-term, world-class, research in mobile and personal communications defined & steered by our industrial members. Its innovative structure accesses the highest quality academic skills and staff, whilst ensuring that research is industrially relevant, yields valuable intellectual property, and provides a very high financial gearing. For more information please visit [www.mobilevce.com](http://www.mobilevce.com). Mobile VCE's industrial members include: Alcatel-Lucent, BBC, Fujitsu, Huawei, NEC, Nokia Siemens Networks, Nortel, Orange (France Telecom), Thales, Toshiba, Turner and Vodafone.



### About NMI

NMI is the premier trade association representing the UK Semiconductor, Microelectronics and Electronic Systems Communities. Our objective is to aid the development of a sustainable, world-class industry by building a strong network and acting as a catalyst and facilitator for commercial and technological development. A not-for-profit organisation funded by its members, the NMI has a membership that spans the supply chain and includes Electronic Systems Design and Manufacturing Companies, Integrated Device Manufacturers, Fabless Semiconductor Manufacturers, Semiconductor Foundries, Electronics Design Services, Intellectual Property Providers, Research and Academic Institutions. For more information please visit [www.nmi.org.uk/index](http://www.nmi.org.uk/index)



### About ICT Knowledge Transfer Network (ICT KTN)

The ICT Knowledge Transfer Network (ICT KTN) was established by an industry-led group of key players in the sector. It is funded by the Technology Strategy Board, which is an executive non departmental public body (NDPB), established by the UK Government in 2007 and sponsored by the Department for Business, Innovation and Skills (BIS). The ICT KTN facilitates knowledge exchange within the ICT segment and adjacent sectors, acting as a catalyst to accelerating innovation. Visit [www.ickttn.org.uk](http://www.ickttn.org.uk) for more information. Contact: Stuart Revell: [stuart.revell@rtacs.com](mailto:stuart.revell@rtacs.com) or [stuart.revell@ickttn.org.uk](mailto:stuart.revell@ickttn.org.uk)



### Event registration contacts:

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