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Informa Telecoms & Media is pleased to invite you to our 2nd annual Telco Energy & Infrastructure Efficiency Conference taking place at 15Hatfields, London - the UK’s leading sustainable venue - on the 11 & 12 of November 2014.

The network operators find themselves in a particularly vulnerable position as they not only need to cope with the regulatory pressure and the fast approaching European 2020 deadline, but also need to tackle the challenge of fast-spreading - across enterprises and households - IT consumerisation trend that is affecting their energy consumption.

Telco Energy & Infrastructure Efficiency brings operators, energy consultancies and solution providers together to facilitate the dialog about new technologies, new approaches and strategies to enable greater energy efficiency and energy cost reduction. This year we bring you industry case studies focussed on:

- **Infrastructure optimisation** - find out what solutions proved to be most efficient in saving network, data centres and base stations energy use
- **Smart solutions application** - learn about the recent developments in Telco infrastructure energy management integration including smart networks and smart grids
- **Renewable energy sources adoption** – discuss the key drivers for implementing alternative energy sources, analyse investment costs and hear how to shorten the investment payback time
- **Telcos’ monetisation opportunities within global energy waste reduction and new services offering** - identify how Telcos can provide energy saving solutions developed in-house and how they can cooperate with the energy providers

Join us at the Telco Energy & Infrastructure Efficiency event and explore a deeply relevant agenda, full of thought provoking presentations and panel discussions, to seek out ways to ensure your business is meeting these challenges head on.

We look forward to an interactive two days of learning and networking! See you at London’s top sustainable venue, 15Hatfields, on the 11 & 12 November 2014!

**Telco Energy & Infrastructure Efficiency team**

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**DAY ONE**

1. **Hear from our keynote Paolo Bertoldi** about the latest European Commission’s projects to reduce Telcos energy consumption

2. **Join the panel discussion** on why energy should be on Telcos’ agenda

3. **Learn from BT, Telecom Italia, Belgacom-Deutsche Telekom and Turkcell** on how telcos are driving change in energy consumption and energy management

4. **Evaluate how to manage energy use to lower OPEX and CAPEX**
   - Join Mind-Share sessions with industry leaders led by Jason Simpson, Co-Founder, Mobile Energy Association

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**DAY TWO**

5. **Network with your peers at the cocktail reception**

6. **Don’t miss out on the telcos monetisation opportunities presented by the recent smart grid developments**

7. **Find out how to implement and reduce payback time of renewable energy solutions**

8. **Join the interactive sessions**
   - **Interview:** Net Positive - A New Sustainable Model for Telcos? Andie Stephens, Carbon Trust and Gabrielle Giner, BT
   - **Live Demo:** Jon Summers of University of Leeds will demonstrate immersion cooling and present his findings on three different liquid cooling technologies: Indirect, Direct and Total Liquid Cooling!
Day 1 – Tuesday 11 November 2014

TELCONS DRIVING CHANGE IN ENERGY CONSUMPTION AND ENERGY MANAGEMENT

08.00 Registration & Refreshments

08.50 Chair’s Opening Remarks & Speed Networking
Julian Bright, Senior Analyst, Ovum

09.00 Update on the European Commission’s Projects to Reduce Telcos’ Energy Consumption
• Improving energy efficiency in the EU
• Measuring energy savings and monitoring progress towards the energy savings policies
• Goals achieved and lessons to be learned
Paolo Bertoldi, The Directorate General—Joint Research Centre, European Commission

09.30 PANEL DISCUSSION: Putting Power Management First: Why Energy Should be on Telco’s Agenda?
• Preparations needed to comply with the EU 20-20-20 targets and the UK Government directive
• Where to find the biggest savings and operating expenses cuts?
• Does the energy message receive enough attention from the senior management?
• How to develop sustainable energy policy within an organisation?
Graeme Brownlie, Principal Category Manager - Energy Procurement, Services & Solutions, Vodafone
Gabriel Bonilha, Head of Network Infrastructure Efficiency, Telefónica Group – Global CTO Unit
Please visit www.telcoenergyefficiency.com for further updates on panellists.

10.00 BT’s Quest to Cut Energy Consumption
• What can be learned from BT’s successful cost and energy consumption reduction?
• Preparing for the predicted increase in data consumption and its impact on telcos’ energy use
Richard Tarboton, Director of Energy and Environment Unit, BT

10.40 Morning Break & Networking

ENHANCING ENERGY EFFICIENCY AND LOWERING INFRASTRUCTURE’S CARBON FOOTPRINT

11.20 Implementing Mobile Network Energy Efficiency Standards
• What is the most important in ensuring mobile network energy efficiency from the operator’s point of view?
• What are the most significant provisions of ETSI EE, ITU and 3GPP standards in relation to energy efficiency? What should you focus on first?
• How can an operator benefit from the GSMA energy efficiency related initiatives?
Mauro Boldi, System Engineer, Telecom Italia

11.50 Energy Efficiency Management to Lower Carbon Emissions
• How did Belgacom reach 63% CO2 emission reduction within last 5 years?
• Solutions applied and challenges met
• Introducing the most advanced new projects - expected energy savings and carbon emission cuts
• Estimating the investment payback time and assessing ROI
Philippe Deconinck, Corporate Social Responsibility Specialist, Belgacom

12.20 Reducing Carbon Emissions Through Microgrid Deployment
• Identifying telco network sites for microgrid deployment
• How to adapt the inherited and now underused telco’s high-quality technological space with its substantial power infrastructure and use it as a microgrid launch pad?
• Controlling power, integration, and interoperability
• Assessing energy saving benefits
Dr. Heiko Lehmann, R&D Director ‘Energy’ Labs, Deutsche Telekom

12.50 CASE STUDIES’ JOINT Q&A

13.10 Lunch

MANAGING ENERGY USE TO LOWER OPEX AND OPTIMISE CAPEX

14.10 How are the GSMA’s Mobile Energy Efficiency Benchmarking and Optimisation Services Driving Energy and Carbon Reductions in MNOs?
• How can GSMA help you to improve your energy efficiency? How to get involved in the GSMA’s MEO initiatives?
• Update on the completed and ongoing MEO projects
• Identifying potential energy and carbon savings per year
• What solutions have been implemented? What energy and carbon savings are expected? What is the expected payback time?
Mark Anderson, Director, Energy Efficiency, GSM Association

14.40 Implementing Energy Efficiency Solutions and Management Tools in a Mobile Network
• Energy consumption monitoring and consumption prediction
• Seeding key optimisation points and redesigning the network for energy efficiency
• Maximizing the benefits of alternative energy and climate control solutions
Mustafa Ercan, Senior Energy & Site Products Engineer, Turkcell
Emre Gedik, Senior Energy & Site Products Engineer, Turkcell

• What are the five primary business issues that energy strategy should address?
• Introducing the concept of “luxonemy” to provide a holistic approach to telcos’ energy management needs
• Reducing OPEX and operational efficiency improvements vs. traffic growth and network sprawl
Greg Whelan, Principal, Greywale Management

15.40 Afternoon Break

FUTURE COOPERATION FOR ENERGY MANAGEMENT AND PROVISION

16.10 Telcos as Energy Providers: Myth or a Foreseeable Future?
• Where to start while entering energy market?
• What are the operational advantages of providing full utility service?
• To what extent the recent M2M service developments facilitate operators’ entry to the energy market?

16.40 Reducing Energy Consumption & CO2 Emissions Through Active RAN Sharing
• Network consolidation through active RAN sharing – Current trends and examples from Sweden
• Environmental benefits of network sharing – Analysis of network infrastructure and operations
• Achieved reductions in energy consumption and CO2 emissions through more efficient use of telecom infrastructure
Jerker Berglund, Founder, Sustainable Approach

17.10 Bridging the Gap: Moving Telco Energy Form a Cost Centre to a Profit Centre
• Collaborative working practices between Telcos and Utilities
• Data driven energy investment decisions
• Building internal energy expertise and capabilities
• Smart energy as a service to existing and new customer sectors
Mind Shares Facilitator: Jason Simpson, Co-Founder, Mobile Energy Association
Please visit www.telcoenergyefficiency.com for further updates on participants.

17.40 End of Day 1 - Followed by Networking Drinks
Day 2 – Wednesday 12 November 2014

TELCOS & SMART GRIDS - EXPLORING SAVING AND MONETISATION OPPORTUNITIES

8.20 Refreshments & Networking

8.50 Chair’s Opening Remarks

Andie Stephens, Senior Consultant, Carbon Trust

9.00 How do Energy Providers and Telcos Work Together to Meet the Smart Grid Requirements of 2020?

• Update on the cooperation between telcos and energy providers to develop smart grid
• Putting appropriate energy management and usage measurement policies in place
• Providing a holistic approach to energy supply and management

9.30 Assessing the Energy Consumption Implications of Multiple Overlapping Networks

• Advancements in establishing more sophisticated network control and operation
• Potential of energy consumption reduction through smart grid solutions adoption
• Developing the most cost effective solutions for smart grid — assessing the investment needed to improve the network energy efficiency

Adrian Grilli, Managing Director, Joint Radio Company & European Utility and Telecom Council Member

10.00 Exploiting Telcos’ Energy Infrastructures to Provide Ancillary Services to the Energy Grid

• How can telcos meet the special requirements of the utility industry in creating the smart energy infrastructure?
• What telcos’ energy related solutions and service platforms proved to be the most appropriate for utilities companies? What is the scope for future cooperation?
• Telcos as Communication Service Providers — working together with utility providers to enable connected homes and minimise energy waste

Flavio Cucchiatti, Senior Project Manager, Telecom Italia Lab

10.30 Morning Break & Networking

11.10 The Rural Smart Grid: Steps Towards Greater Integration of Energy Systems

• Assessing challenges to create a performant Smart Rural Grid: There is no Smart City without Smart Rural
• Accommodating telecommunications to develop a robust communication network in rural environment
• Improving control and storage technologies and other systems and devices required to achieve high integration level and flexibility
• Creating a data and energy control system that manages local micro-production units and different Intelligent Distribution Power Routers (IDPRs) sharing LV & MV networks
• How to integrate all the novel features into single platform – what technologies are needed to facilitate data transfer and internal communication?

Santi Martinez Farrero, CEO, Estabanel Energia
Ramon Gallart Fernández, Smart grid projects - coordination and design, Estabanel Energia

IMPLEMENTING SMART SOLUTIONS FOR SMART ENERGY USE

11.40 Delay Tolerant Techniques for Increasing Energy Efficiency in Mobile Networks

• Evaluating the elasticity of mobile Internet traffic in terms of delay - assessing delay tolerance and deciding on opportunistic transmission
• Outlining the opportunities to lower energy consumption by using the inherent mobility of users messages
• Application of the method in emerging and future cellular networks – assessing potential benefits

Dr Vasillis Friderikos, Senior Lecturer in the Centre for Telecommunications Research, King’s College London

12.10 Implementing Smart Metering: Telcos’ Monetisation Opportunities within Global Energy Waste Reduction

• Providing communications hub to energy suppliers – smart meter deployment and network planning
• Managing M2M communication and ensuring data security
• How can Telco’s secure their role as communication facilitators in the fast-growing smart metering market?

Eric Estrade, Principal SCM Manager Energy - Network Opex, Vodafone

12.40 Exploring the Future of Cooling

• Learn about liquid cooling technology, thought by many to be the future of servers and data centres
• Understand about the different liquid cooling technologies and their differences
• Compare research data between liquid cooling technologies

Jon Summers, Senior Lecturer, University of Leeds

13.00 Lunch

MONETISING RENEWABLE ENERGY SOLUTIONS

14.10 PANEL DISCUSSION: What are the Key Drivers for Adoption of Alternative Energy Sources?

• Energy saving opportunities presented by using renewables in off-grid and bad-grid sites
• OPEX reduction potential – savings in fuel-related expenses
• Stimulating growth and empowering remote communities – the socio-economic case for green base stations

Graeme Brownlie, Principal Category Manager - Energy Procurement, Services & Solutions, Vodafone
Adrian Pike, Senior Specialist – Radio Architecture and Tools, Orange

Please visit www.telcoenergyefficiency.com for further updates on participants.

14.50 Investing in Alternative Solutions to Power Off-grid Base Stations

• Deployment of power management solutions based on renewable energy sources (sun and wind)
• Regulating supply to the grid – choosing appropriate battery banks for energy capture and storage
• Shortening the payback times of renewable energy solutions

Sazal Kumar Hazra, Director & Head of Network Planning and Optimization, Grameenphone

15.20 Next Generation Data Centre Design and Deployment

• Top of Rack vs. End of Row designs
• Energy saving and OPEX reduction opportunities
• Leveraging hardware and software optimisations
• Managing data centre interconnectivity

Stephan Harren, Senior Manager Technical Account Management, Deutsche Telekom

15.50 Afternoon Break

MOVES TOWARDS GREATER SUSTAINABILITY AND CIRCULAR ECONOMY – SEIZING OPPORTUNITIES & ADDRESSING FUTURE ENERGY CHALLENGES

16.20 INTERVIEW

with Andie Stephens, Senior Consultant, Carbon Trust & Gabrielle Giner, Programme Manager - Better Future Programme, BT

Net Positive – A New Sustainable Model for Telcos?

• Choosing appropriate methodologies to assess the positive and negative environmental impacts of ICT
• Driving new product development with sustainability
• How to engage stakeholders in the sustainability debate

16.50 The Role of Telcos in Developing Sustainable Smart Cities

• Opportunities provided by the growing need for fast networks
• How can telcos develop to be an integral part of sustainable Smart Cities?
• Network developments needed to seize the opportunities presented by the IoT market
• How can telcos further promote their sustainable solutions including solar energy, electrical home systems devices, smart grid etc.? 

Sabrina Goccia, International Expert in Smart Cities, SmartMetropolis

17.20 Chair’s Closing Remarks & Close of Conference

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Hearing insights into supply chain & user energy/materials consumption from @metrof @nokia & Bill treaties of Samsung #telcoenergy

RC y Sostenibilidad @RCySost
RT: @a_shabelnikova "Optimisation services are in the infancy stage" Mark Anderson, GSMA #telcoenergy

Damien Wells @damienwells
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EVAM Top 30: Verizon is leading light in Informa’s top 30 operators in the utility market

Verizon, Vodafone and Deutsche Telekom lead Informa’s ranking of top operators in the market to supply services to the utility sector. “Utilities” are defined as suppliers of energy, water, and district heating/cooling, Energy Services Companies (ESCOs), and associated partners.

Scores are derived from our assessment of each operator’s activity level and commitment to the market during the three-year period between 2011 and 2013. The final total consolidates performance in terms of: the breadth of the services portfolio; the maturity of market presence; the geographic market reach and the financial potential of customer relationships; and partnerships.

Utilities make up a highly diverse segment with communications needs that are changing rapidly in response to external and internal pressures – despite the sector’s reputation for conservatism. Verizon, Vodafone, and Deutsche Telekom have quite different priorities in this market, as reflected in their portfolios and customer wins (see Results section).

Verizon ultimately tops the list due to: its involvement in commercial smart metering rollouts in the US; its strong claim to the managed security services market; its cloud-hosted services for smaller utilities; and the breadth of its partnerships.

Since 2011, more operators have been making public announcements about smart metering and smart grid and revealing more reference customers (see fig. 1). As of the end of 2013, 68% of the major operator groups have a presence in the utilities market, as measured by their public statements. Informa defines “major operators” according to their revenues and mobile subscriber numbers (World Telecom Financial Benchmarks 3Q13 and World Cellular Data Metrics 3Q13).

The correlation of announcements with public funding programs may explain a decrease in the activity in 1H13 (see fig. 2), as US funding is now largely spent. While suppliers benefit from public largesse and clear deployment targets, they are also vulnerable to political timetables and policy reversals – as was the case during 2012 and 2013 when Brazil, Germany, and Australia all scaled back their previous metering commitments.

This article has been taken from Ovum’s Knowledge Center, for more information please visit: http://ovum.com/knowledge-center. For more information contact enquiries@ovum.com