



World Class Standards



**ENERGY EFFICIENCY  
AND ENVIRONMENTAL IMPACT  
ASSESSMENT WORKSHOP**

7-8 OCTOBER 2013, ATHENS (GR)

<http://www.etsi.org/events>



- 09:00 Welcome and Workshop Introduction  
Beniamino Gorini, ETSI TC EE Chairman, Alcatel-Lucent
- 09:30 **KEYNOTE** : ITU Activities on Environmental Sustainability for the ICT Sector  
Ahmed Zeddami, ITU-T SG5 chairman
- 10:00 **KEYNOTE**: The ETSI Green Agenda  
Keith Dickerson, Climate Associates Ltd
- 10:30 COFFEE and POSTER SESSIONS** (presented under the Poster Sessions page)

**SESSION 2: Information from current standardization initiatives**

**Session Chair: Ahmed Zeddami, Orange, Chairman of ITU-T SG5**

- 11:00 Overview of Working Party 3/5 "ICT and Climate Change"  
Gianluca Griffa, ITU-T SG5
- 11:20 The role of the standard in the energy efficiency for radio access networks: the ETSI EEPS activities on Network level Energy Efficiency and radio base stations  
Mauro Boldi, Telecom Italia, rapporteur of WI DES00005 & Daniel Dianat, Ericsson, rapporteur of WI RES/EE-EEPS00022ed141
- 11:50 The role of the ETSI LCA standard for ICT in European and global environmental policy.  
Anders Andrae, Huawei Technologies Ltd., rapporteur of RES/EE-EEPS006 LCA (ES 203 199)
- 12:10 The Benefits of Alignment in Standardization  
Dave Bossmin, Ericsson Canada, ATIS WWG chair
- 12:30 Questions and Answers Session
- 12:45 LUNCH and POSTER SESSIONS**

**SESSION 3: Application of methodologies for environmental impact assessment (life cycle assessment (LCA))**

**Session Chair: Anders Andrae, Huawei Technologies Ltd, rapporteur of RES/EE-EEPS006 LCA**

- 14:00 Tools, results and future requirements for the energy assessment of virtualized IT systems and Datacenters and the EKT case study  
Panagiotis Stathopoulos, National Documentation Center/ National Hellenic Research Foundation (EKT/NHRF)
- 14:20 Testing different simplification approaches for LCA of a mobile phone  
Åsa Moberg, KTH Royal Institute of technology



**Agenda**  
**Day 1: 7<sup>th</sup> October 2013**

- 14:40 | Are product carbon footprints the way forward? Practical experiences from LCAs of ICT product systems  
Pernilla Bergmark, Ericsson AB, associate Rapporteur of Q18/5 ITU-T SG5
- 15:00 | Prospective sustainability assessment of smart phone mobile communication  
Jáchym Judl, Finnish Environment Institute
- 15:20 | Questions and Answers Session
- 15:45 | **COFFEE and POSTER SESSIONS**

**SESSION 4 : Application of methodologies for energy efficiency measurement;**  
**Session chair: Mauro Boldi, Telecom Italia, rapporteur of WI DES00005**

- 16:20 | The Estimation of Energy Saving in Base Station Rooms  
Anping Shen, Academy of Telecommunication Research of Ministry of Industry and Information Technology of the People's Republic of China
- 16:40 | Receiver sensitivity: The forgotten mobile network efficiency factor  
Hans Otto Scheck NSN
- 17:00 | Testing of Energy Aware Communication Equipment  
Renato Grosso, Ericsson Telecomunicazioni SpA
- 17:20 | Test driving the energy efficiency of cellular networks  
Marco Ajmone Marsan, Politecnico di Torino, Italy
- 17:40 | Questions and Answers Session
- 18:00 | END OF DAY**

**SESSION 5 : Findings from environmental impact assessments of ICT products, networks and services**

**Session Chair: Pernilla Bergmark, Ericsson AB, associate Rapporteur of Q18/5 ITU-T SG5**

- 09:00 | The carbon and electricity footprints of the ICT and E&M sector – yesterday, today and tomorrow  
Jens Malmodin, Ericsson AB
- 09:20 | Changes in environmental impact over time in the fast developing ICT industry  
Dag Lundén, TeliaSonera
- 09:40 | Estimation of ICT Sector footprints  
Anders Andrae, Huawei Technologies Ltd., rapporteur of RES/EE-EEPS006 LCA (ES 203 199)
- 10:00 | Questions and Answers Session
- 10:30 | COFFEE and POSTER SESSIONS**

**SESSION 6 : Technical solutions and best practice for energy efficiency and reduced environmental impact in ICT**

**Session Chair: Paolo Gemma, Huawei, Chairman of WG EEPS**

- 11:00 | The ETNO CORE Energy Task Force: Goals and main activities  
Gianluca Griffa, ETNO CORE Energy Task Force
- 11:20 | An energy efficient approach in coverage and capacity optimization of heterogeneous networks  
Dimitrios Karvounas, University of Piraeus
- 11:40 | Improving Energy Efficiency in Greek Schools with IPv6-enabled Smart Meters  
Vassilis Nikolopoulos, Intelen
- 12:00 | Regulation 1275/2008, Standby & Off-Mode Network Standby  
Klaus Verschuere, CISCO
- 12:20 | Questions and Answers Session
- 12:45 | LUNCH and POSTER SESSIONS**



**SESSION 7: Research projects**

**Session Chair: Anastasios Zafeiropoulos, Greek Research & Technology Network**

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|--------------|---|
| 14:00        | 5GrEEen – Towards Green 5G Mobile Networks<br>Magnus Olsson, 5GrEEen project (Ericsson AB)  |
| 14:20        | Environmental Engineering (EE) - Green Abstraction Layer (GAL) Power management capabilities of the future Energy Telecommunication Fixed Network Nodes<br>Raffaele Bolla, CNIT |
| 14:40        | Greenhouse gas emission reports from NRENS and the GÉANT pan-European network<br>Vasiliki Giannikopoulou, Greek Research & Technology Network (GRNET)                           |
| 15:00        | Questions and Answers Session   |
| <b>15:20</b> | <b>COFFEE</b>   |
| 15:40        | WRAP UP SESSION<br>Summary from session chairs  |
| <b>16:30</b> | <b>CLOSE OF EVENT</b>   |