



## DIGITAL NETWORKS FOR THE FUTURE 6 July, 2007

International Energy Agency, Paris

### *Agenda*

#### Friday, July 6

9:00 *Registration*

**Session 1** **THE NETWORK CONTEXT**

9:15 *Welcome by Workshop Chair*

Mark Ellis, IEA

9:25 *What we learned about network issues from the previous 2 days*

Mark Ellis, IEA

9:35 *"The problem - opportunities & threats" and the vision for 2027*

Alan Meier, LBNL

9:45 *The 7-layer OSI network model*

Bruce Nordman, LBNL

9:10 *Energy requirements for networks*

Bruce Nordman, LBNL

10:10 *Coffee break*

**Session 2** **VISIONS FOR 2027**

10:40 *Introduction by Session Chair*

Bill Belt, CEA (invited)

10:45 *Electronics*

Richard Banks, Microsoft

11:15 *Lighting*

Ronald Tol, Philips Lighting

11:45 *Climate Control*

Friederich Kupzog, TU Wien

12:15 *Wireless sensors/actuators/controls*

Armin Anders, EnOcean

12:45 *Lunch*

<b>Session 3</b>	<b>INSTANCES WHERE PROGRAMMES HAVE TACKLED NETWORKING</b> <b>3 minute updates</b>
14.15	<b>Introduction by Session Chair</b> Alan Meier, LBNL
14.20	<b>Digital Television Adapters in the U.S.</b> Noah Horowitz, NRDC
	<b>Energy Star computer specification</b> Tom Bolioli, Terra Novum
	<b>LBNL network project</b> Bruce Nordman, LBNL
	<b>Network-induced energy consumption in Korea</b> Nam-kyun Kim, KERI
	<b>EU Codes of Conduct: Broadband equipment</b> Paolo Bertoldi, EU
	<b>Thermostats: T-stat as network</b> Alan Meier, LBNL
	<b>Market Transformation Program activities</b> Kevin Lane, UK MTP
	<b>Energy Efficiency Network Project in Japan</b> speaker to be determined, METI
	<b>IEC TC 100 Activities</b> Jon Fairhurst, Sharp
15.00	<b>Discussion</b>
<b>Session 4</b>	<b>WHAT ENERGY EFFICIENCY REQUIRES FOR FUTURE NETWORK ARCHITECTURE</b>
15:20	<b>Introduction by Session Chair</b> Nigel Jollands, IEA
15.25	<b>Introducing the Guiding Principles</b> Bruce Nordman, LBNL
15.35	<b>Discussion</b> <ul style="list-style-type: none"> <li>• What principles should guide energy efficiency for networks?</li> </ul> <b>Concrete Actions</b> <ul style="list-style-type: none"> <li>• What areas of research are needed?</li> <li>• What technical and industry standards needs to be developed or amended?</li> <li>• What directions can we recommend for energy efficiency policy?</li> </ul>
16.30	<b>Next Steps — How to implement</b>
17.10	<b>Summary from Session Chair</b> Nigel Jollands, IEA
17.20	<b>Summary from Workshop Chair</b> Mark Ellis, IEA
	<b>WORKSHOP ADJOURNS</b>
17:30	<b>Informal dinner to continue discussion</b>