

Agenda - are we on track?

- 1: Technology and future
- 2: Targets and objectives
- 3: Discussion

Setting the scene

What do we want?

What do we need to get there?

- 4: Experiences, practices and further needs
- 5: Building on lessons learned
- 6: International standards and energy management protocols

What do we already have?

Alignment and common solutions

- 7:
 - How to measure standby energy consumption of networked appliances
 - How to develop standardised test procedures and protocols

Quick deployment and sharing

How to ensure international cooperation

- 8: Discussion

Next steps & actions

**Consistent terms and definitions
on: product types, modes,
functionalities, technologies etc.**

Methodology development

**Start data collection
now and coordinate**

Baselines

**Platforms – infrastructure
for sharing**

**Energy efficiency into standards
Coordination of standards**

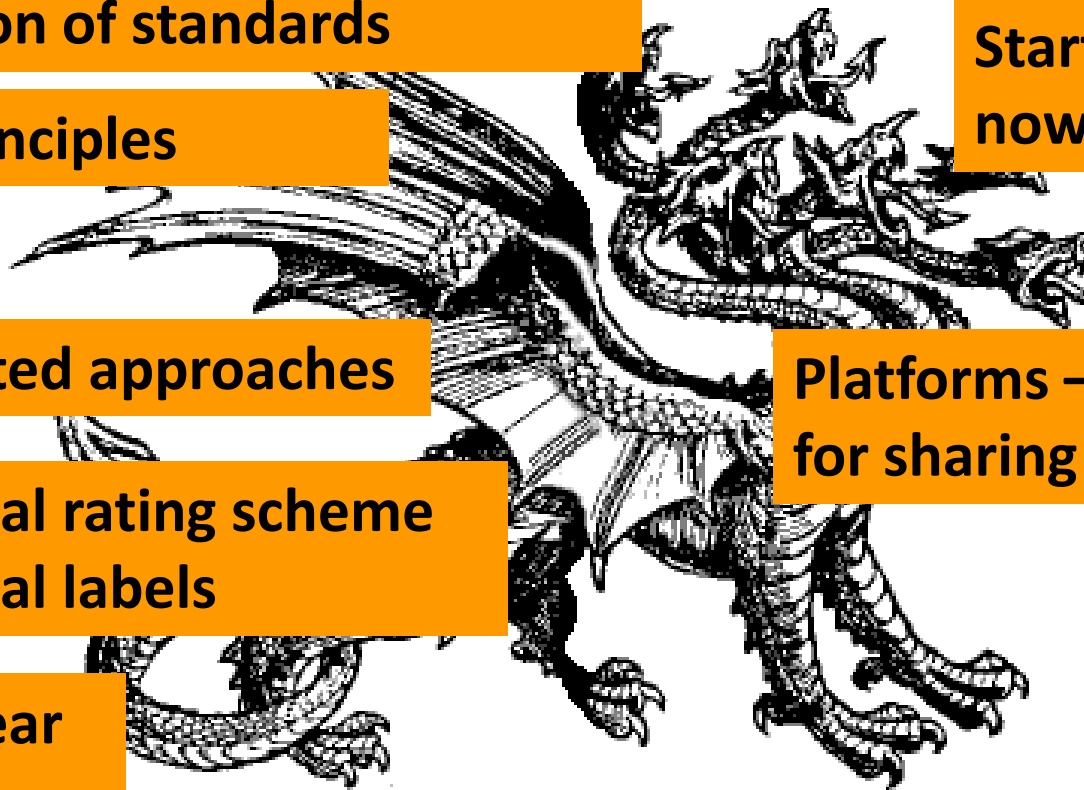
Guiding principles

Process

Differentiated approaches

**International rating scheme
International labels**

**Develop clear
messages**



Summary

Experiences

- **Korea - Moving forward with setting requirements both for networked products and products and soon to be networked products**
- **US – Federal MEPs, Energy Star**
- **EU – Codes of Conduct, amendment to legislation (horizontal approach, requirements push for inbuilt power management)**
- **China – work in progress (urgent need - 100 million LCD TVs produced in 2011, 50% worldwide export, rapidly growing residential energy use)**

Issues (1)

- **Industry & research platforms for convergence**
- **Need for clear definitions**
- **Standardisation**
- **International cooperation**
- **House level power requirements**
- **Roadmap**
- **Technical basis (definitions, harmonised test methods, uniform efficiency grades)**
- **Demonstration (suitable products, technical report)**
- **Proprietary protocols - a problem**

Issues (2)

- **Comparison between various power requirements – some are higher/lower – why?**
- **Do not forget active mode**
- **Duration and total energy consumption**
- **Country specific conditions – different product categories, different functions**
- **Products are GLOBAL our minds are LOCAL**

International standards

- Need consideration shipping settings & use
- Reaching consensus is challenging – different stakeholders have different priorities/perspectives
- Effective standardisation work – pressure and getting interested parties involved – enthusiasm
- Including performance – can slow down process – global convergence needed first?
- Process 2 years – proposals through National Committees
- Smart grids - conceptual work including suggestion protocols

Technology standards and energy management protocols

- Guiding principles
- Enabling power management in network connected products – networks are important
- Range of solutions
- Energy reporting – indirect but potentially large savings
- Process: standard – deployment – usage
- How to make energy efficiency a priority in technology standards?

Data collection and analysis

- We need a lot of power measurements for robust analysis
- Reasonable consistency
- Benefits of international harmonisation of methodology
- Defining products and modes
- Baselines
- Local market conditions
- Hard-wired usage – implication for network standby power consumption?

Field measurement methodology development

- Many variables – challenging – are there really quick fixes?
- How to integrate time?
- If it works software simulation tools could save resources for lab testing
- Value for creating baselines and screen testing
- Uniform approach could resolve many data inconsistency challenges when tracking and comparing progress

Proposals

(1) International marking regime

- not consumer labels – but markings to stimulate competition and facilitate work for regulators
- absolute scale for all products (10 – 8 – 7.... 1 Watt)
- voluntary – could be mandated

(2) Guiding principles for networks and network connected products

- tool to work towards integrating energy efficiency consideration into standards?
- basis for voluntary industry agreements?
- coordinated approach by governments

Proposals

(3) Test procedure library

- **New way of doing things**
- **Develop repository/library – compiling a menu rather than cooking from scratch**
- **Compile existing information and fill gaps**
- **Dynamic process**
- **Who is librarian?**
- **Where will it sit?**
- **How to develop it? Updates?**
- **How to coordinate with IEC? Procedural issues?**

Workshop outcomes

- Identification of what we have and what we need
- How do we make energy efficiency a priority?
- What parallel issues/developments need to be considered
- Where are the energy efficiency opportunities?
- Identification of priorities
- Next steps – **need for more meetings/discussion**
- Timeline
- Issues for future attention

PLANNED: INTERNATIONAL CONFERENCE 2013

- **Practical issues – presentations, report**