

Gabriel Barta

Secretary, IEC Market Strategy Board (MSB) UNECE WP.6 Session 2011-10-31..11-02

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The energy / electricity problem

- Growing population
- Growing energy use
- 1.6B people have no electricity
 - So use will *increase* in many places
- Greenhouse gases: deteriorating climate
 - Coastal cities may disappear
- Factor of four improvement needed
 - Half as much, twice as efficiently



The logic of how standards and conformity assessment can help

- Worldwide energy challenge can only be met by international agreement
- Energy efficiency, electrification, use reduction, etc. need clear specifications
- IEC standards are the best worldwide technical consensus achievable
- Therefore regulations & policy are best if based on standards & conformity to them





White Paper: Electrical Energy Efficiency

- Long-term strategic view 20 years, up to 2030
- Document approved by IEC Council Board, highest IEC authority
- Gives recommendations to reduce CO₂ emissions & energy consumption
 - for standards & conformity assessment but also for others:
 - regulators
 - companies



Framework for solutions

- It will cost more to do nothing!
- Electricity is a key element
 - Controllable
 - No waste or emissions at end use
 - Transportable
- *Triad:* save, electrify, decarbonize
 - Products can be 30 % more efficient
 - Electrify transport, heating (for control/CHP)
 - Renewables, re"old"ables (CCS)



How?

- Agree on the "what": precise technical spec.
 - Absolute need for all countries' *consensus*
 - This means a standard (must be international)
 - Many already exist, others under development
- Agree policy & investment to implement
- Check that it has been done correctly
 - This means conformity assessment
- Demonstrate & compare efficiency
 - Coherent regulations & labelling



Why IEC Conformity Assessment?

- They are the only truly global CA Systems
- Offer totally reliable & predictable results
- to IEC International Standards
- Obligatory mutual acceptance of test results
 - All the advantages of Mutual Recognition
 Agreements without the overhead, difficulties
- Easy path to good regulations
 - Regs. may refer to, or be based on, Certificates
- Ideal for comparability, i.e. fairness





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