ITU and Climate Change – Standardization Landscape

ETSI Green Agenda Seminar
26 November 2009

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International Telecommunication Union
Outline

- ITU’s mandate on ICT and Climate Change (CC)
- ITU’s and ITU-T’s achievements
- ITU-T’s future work
UN identified Climate Change as Challenge

“Climate change is the defining challenge of our era. ITU’s work to cut greenhouse gas emissions, develop standards and use ‘e-environment’ systems can speed up the global shift to a low-carbon economy.”

Ban Ki-Moon, United Nations Secretary-General, 12 November 2008

“Climate Change is a global challenge that the world cannot lose.”

Dr Hamadoun I. Touré
ITU Secretary-General, 13 November 2008
Importance of ICTs and Climate Change identified at top level (1/2)

- World Telecommunication Standardization Assembly to continue and further develop the ITU-T work programme ... on ICTs and climate change, as a high priority ...

Global Standards Collaboration (GSC-14, July 2009) Resolution,
- “encourages ... collaboration”

- ITU Council (Oct. 2009), Resolution 1307, unanimously decided
  - to transmit a message on “the importance of the role of telecommunications/ICTs in combating climate change” to the United Nations Climate Change Conference (Copenhagen Dec 2009)
  - to play an active part in UNCCC
ITU’s mandate on ICT and Climate Change
ITU’s and ITU-T’s achievements
ITU-T’s future work
Committed to Connecting the World

ITU is building knowledge and promoting visibility

- ITU-T Technology Watch Report “ICT and CC”
- ITU Symposia on ICT and CC
  - 2008: Kyoto and London
  - 2009: Quito and Seoul (virtual event)
- ITU further enhancing energy efficient work methods
  - Paperless meetings, on-line work tools
- ITU leads Dynamic Coalition on “Internet and CC” of Internet Governance Forum
ITU-T created new Study Group “Environment & Climate Change”

- ITU-T Study Group 5 (April 2009)
  - New Working Party “ICT and Climate Change”
  - Continues output (four deliverables) of ITU-T Focus Group on ICT and CC (July 08 – April 09)
- All ITU-T study groups to examine impact of recommendations on climate change
ITU-T SG5 established five work areas

- Coordination and Planning of ICT&CC related standardization (Question 17 of ITU-T SG 5)
- Methodology of environmental impact assessment of ICT (Q18/5)
- Power feeding systems (Q19/5)
- Data collection for Energy Efficiency for ICTs over the lifecycle (Q20/5)
- Environmental protection and recycling of ICT equipments/facilities (Q21/5)
ITU-T established Joint Coordination Activity (JCA)

- Objectives:
  - to co-ordinate
    - across ITU-T study groups
    - and with ITU-R and ITU-D
  - to seek co-operation from external bodies including non-ITU member organizations
ITU-T is approving a standard for a universal charger for mobile phones

- “Universal power adapter and charger solution for mobile terminals and other ICT devices” (ITU-T Recommendation L.1000)
  - specifies general requirements
  - covers charger for mobile phones

- Future version will cover other ICT devices
ITU-T is approving a standard on e-waste

- “Classification of outside plant waste” (ITU-T Recommendation L.24) was updated
- Helps to promote recycling (Question 21/5)
- ITU’s mandate on ICT and Climate Change
- ITU’s and ITU-T’s achievements
- ITU-T’s future work
New work items for standard GHG (Green House Gas) measurement and evaluation methods

- Methodology for environmental impact assessment of
  - ICT goods and services
  - ICT projects
  - ICT within organisations
  - ICT within countries

(Question 18/15)
New work items for promoting recycling and e-waste reduction

- The use of life cycle analysis in outside plant
- Recycling of copper and optical fibre cables
- Communication formats for recycling information of rare metals in ICT products

(Question 21/5)
New work items for efficient power feeding systems within e.g. a data center

- Architecture of power feeding systems
- Characterizations and specifications of power feeding system, especially for Higher Voltage DC system
- Methodologies for evaluating the performance of energy feeding and its environmental impact
- Safety for humans and equipment

(Question 19/5)
Future meetings

- ITU-T WP3/5 meeting (ICT and CC)
  19-22 January 2010, Geneva
- ITU-T SG5 meeting (Environment and CC)
  12-16 April 2010, Buenos Aires, Argentina
Related links

- ITU and climate change
  - [http://www.itu.int/themes/climate/](http://www.itu.int/themes/climate/)
- ITU-T and climate change
- ITU-T Study Groups
- ITU events on climate change:
  - [http://www.itu.int/themes/climate/meetings.html](http://www.itu.int/themes/climate/meetings.html)
- ITU Symposia on ICTs and Climate Change
- FG-ICT&CC deliverables: