



ITU and Climate Change – Standardization Landscape

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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

...

- World Telecommunication Policy Forum (April 2009), Opinion 3,

- instructs promotion of WTSA Res.





Importance of ICTs and Climate Change identified at top level (2/2)

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
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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)



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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/>
- ITU-T and climate change
 - <http://www.itu.int/ITU-T/climatechange/>
- ITU-T Study Groups
 - <http://www.itu.int/ITU-T/studygroups/index.html>
- ITU events on climate change:
 - <http://www.itu.int/themes/climate/meetings.html>
- ITU Symposia on ICTs and Climate Change
 - <http://www.itu.int/ITU-T/worksem/climatechange/>
- FG-ICT&CC deliverables:
 - <http://www.itu.int/ITU-T/focusgroups/climate/index.html>