

ITU-T and Climate Change

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**ITU-T SG 15 Tutorials on
Energy-Efficiency**

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ICTs and Climate Change

- **ICTs contribute towards global warming**
 - **ICTs generate around 2.5 per cent of Greenhouse Gases**
- **But ... are used in environmental monitoring**
 - **e.g. WMO's Global Telecommunications System**
- **.. can help in adapting to the effects of climate change**
 - **e.g. Common Alert Protocol for emergency telecoms (ITU-T Rec. X1303, Sept 2007)**
- **.. can be used more efficiently**
 - **e.g. NGNs are 40% more energy efficient**
- **.. can reduce carbon emissions in other sectors**
 - **e.g., use of video-conferencing to reduce travel**

ITU-T and Climate Change

- **Technology Watch Briefing Paper** on ICTs and climate change, published Dec 2007
- **TSAG LS 30**: Assessment of ITU-T Recs in light of CC
- ITU-T work on **NGNs** should reduce carbon emissions because:
 - Fewer switching centres required;
 - More tolerant air conditioning requirements;
 - Multiple power modes (e.g., sleep, standby, full-power)
- Other relevant **technologies** include RFID/USN and intelligent transport systems (e.g., fully networked car)
- Other **study group** activities include:
 - **SG2** on telecoms for disaster relief
 - **SG6** on recycling and safe disposal of eWaste
 - **SG15** on reduced power requirements for telecoms equipment
 - **SG16** on videoconferencing etc
 - **SG 17** on common alerting protocol

ITU Symposia on ICTs and Climate Change

- **Agreed by TSAG at Dec 2007 meeting**
 - **Kyoto, April 15-16, hosted by MIC Japan**
 - **London, June 17-18, hosted by BT**
- **Call for papers/speakers (by 29 Feb):**
 1. **Climate change and the impact of ICTs**
 2. **Use of ICTs in monitoring climate change**
 3. **ICTs for mitigating local effects of climate change**
 4. **ICTs and concerted action against global warming**
 5. **ICT standardization in the field of climate change**



- **See: <http://www.itu.int/ITU-T/worksem/climatechange>**

Strategic issues for ITU-T

- **Assessment of existing and new ITU-T Recommendations in the light of climate change (TSAG LS 30)**
- **Identifying requirements for further ICT standardization work and gaps in current portfolio of Recommendations**
- **Draft Resolution on ICTs and climate change for WTSA-08**
- **Setting target for reductions of greenhouse gases that can be achieved by using ICTs, including through implementation of ITU-T Recs.**

Strategic objectives for ITU

- **Demonstrate that ICTs are a clean technology for promoting sustainable development**
- **Promote a global understanding of the relation between ICTs and climate change through global fora and agreements**
- **Position ITU as a partner in the combat against Climate Change and a strategic leader in the use of ICTs**
- **UN (including ITU) has committed to achieving climate-neutral status within three years**

Thank You

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For information, see:

www.itu.int/ITU-T/climatechange