

**IGF**  
**Sharm El Sheikh, Egypt**  
**15-18 November 2009**



WORKSHOP #109

# Greening The Internet



**ITU**  
and climate  
change

ORGANIZED BY:  
THE INTERNATIONAL TELECOMMUNICATION UNION (ITU),  
THE INTERNATIONAL INSTITUTE FOR SUSTAINABLE  
DEVELOPMENT (IISD) & NILE UNIVERSITY

# Greening the Internet

**17 November**  
**9:00 – 10:30**  
**Room 6**  
**Alexandrina**

## Introduction

In today's economic climate, Greening the Internet is an even greater concern for economic recovery and sustainability and for addressing climate change. It is no wonder that a key component of the economic stimulus agenda in US, Japan, Europe and many other regions, is investment in broadband. Internet based-applications are a key to unleashing many opportunities for real solutions to climate change, such as smart homes, smart appliances, smart transportation and smart energy grids. Many companies today are already recognizing that going Green is not just "nice to do", they are doing this as it makes good business sense.

The ICT industry has been making progress in energy efficiency and the use of renewable energy, and best practices can be already shared. Even new technologies such as NGN, are innately green compared to their predecessors. ITU-T's SG 5 on Environment and Climate Change examines how to measure and reduce the impact of ICTs on the environment in order to help advance the Green ICT agenda.

Energy efficiency is the easiest and quickest thing companies can do to reduce their consumption. Some obvious examples can be found in new types of data centers, and innovative techniques such as water cooling, air cooling, flywheel storage, virtualization of servers, etc. Virtualization and cloud computing have now added an interesting dimension to increasing efficiency through the Internet.

The future Internet is arriving as new patterns emerge on the use, applications and business models for Net services. This workshop will examine the new trends in the Internet, the potential impacts on climate change and the ways in which the Internet can evolve in an environmentally-friendly manner.

## Programme

Keynote:

Malcolm Johnson, Director, ITU Telecommunication Standardization Bureau

Speakers:

- Catherine Trautmann, Member of the European Parliament
- Joseph Alhadeff, Vice President for Global Public Policy, Chief Privacy Officer, Oracle Corporation
- Catalina McGregor, Founder and Deputy Champion, Green ICT CIO/CTO Council, UK Government
- George Sadowsky, Director, ICANN: "Economic Observations with Regard to the Greening of IT"
- Alice Munyua, Convener, Kenya ICT Action Network (KICTANET): "Electronic waste management in Kenya"
- Tony Vetter, Project Manager, IISD: "Measuring the Impact of Internet Governance on Sustainable Development"
- Nezar Sami, Director, Information Systems Department, Nile University: "Research & Education Networks Go Green - From Infrastructure to Applications"

Moderator:

Arthur Levin, Head, ITU Telecommunication Standardization Policy Division