

# What impacts does AI have on achieving Net Zero objectives?

## AI is here, we must adapt in a sustainable way

We need a sectorial approach and having standards and common methodologies to reduce energy and CGH impacts and to foster positives impacts.

- Implementing solutions to reduce energy consumption and GHG emissions.
- Implementing solution to reduce the impact on raw materials and water consumption.
- Changing the way to use AI : new business models and use of generative AI.
- Self-regulation and alert process by the AI itself.

Needs Cooperation of all actors:

Question of sovereignty and independence

ITU Launch Green Digital Action COP 29 Agenda

- ICT sector GHG emissions pillar ( scope 1,2&3)
- The ITU Data Base L1472 standard and the launch of a Pilot



ITU-T

Standardization Sector



## ITU's Role in Promoting Environmental Sustainability for AI and Emerging Technologies : ITU-T Study Group 5

E-waste and circular economy

Power feeding and energy storage

Energy Efficiency and assessment and monitoring of the network

Environmental efficiency of data centers

Assessment of GHG emissions

reports were launched on 8 July 2025:

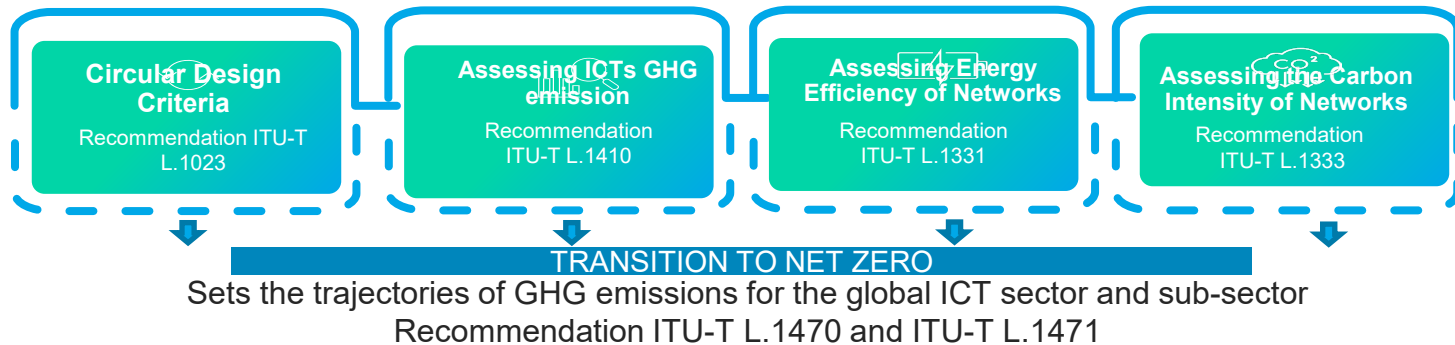
- Methodologies to assess Net Zero progress in cities
- Guidelines for cities to achieve carbon Net Zero through digital transformation

<https://u4ssc.itu.int/>



# ICT sector's commitment to 1.5°C and the Sustainable Development Goals

## ITU-T Standards Driving Sustainable ICTs



## Strengthening Collaboration and Implementation of Standards :

### Call to action: Support the current ongoing work

**L.FCC**  
Energy consumption management and optimization platform

**L.IEDL**  
Energy saving strategy for deep learning computing

**L.TR\_TA\_GC**  
Testing and Assessment method of Green Computing Power

**L.MM\_Computing\_power**  
Computing power efficiency matrix and measurement methodology

**L.Env\_DC**  
Guidelines on Multi-Dimensional Environmental Metrics and Management for Data Centres

**L.CFSP**  
Guidelines for the assessment of the carbon footprint of Software products

**L.EnvAI:**  
Guidelines for Assessing the Impact of Artificial Intelligence on Environment

## We need cooperations and coalitions :

**Governments**  
**/Regulators/Private sector :**  
**Operators, Manufacturers, Vendors/Academia ,Research Institutions/ UN Agencies and SDOs such as IEEE, ISO.**

