

Highlights of SG5 meeting results

Geneva, 3 – 12 June 2025

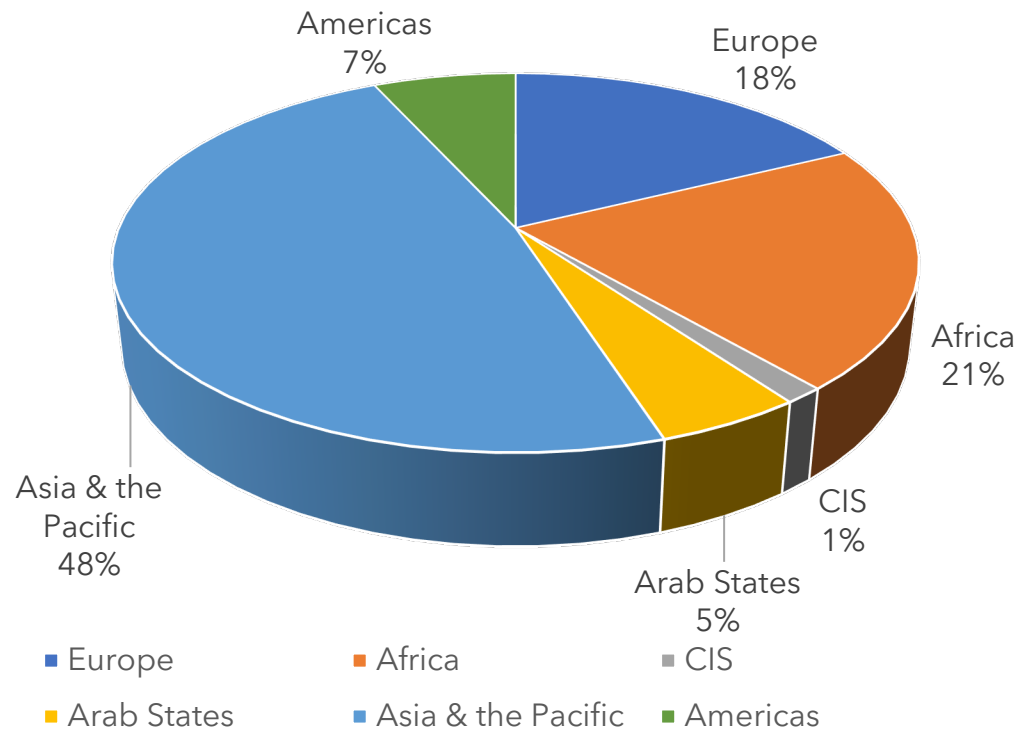


General Information

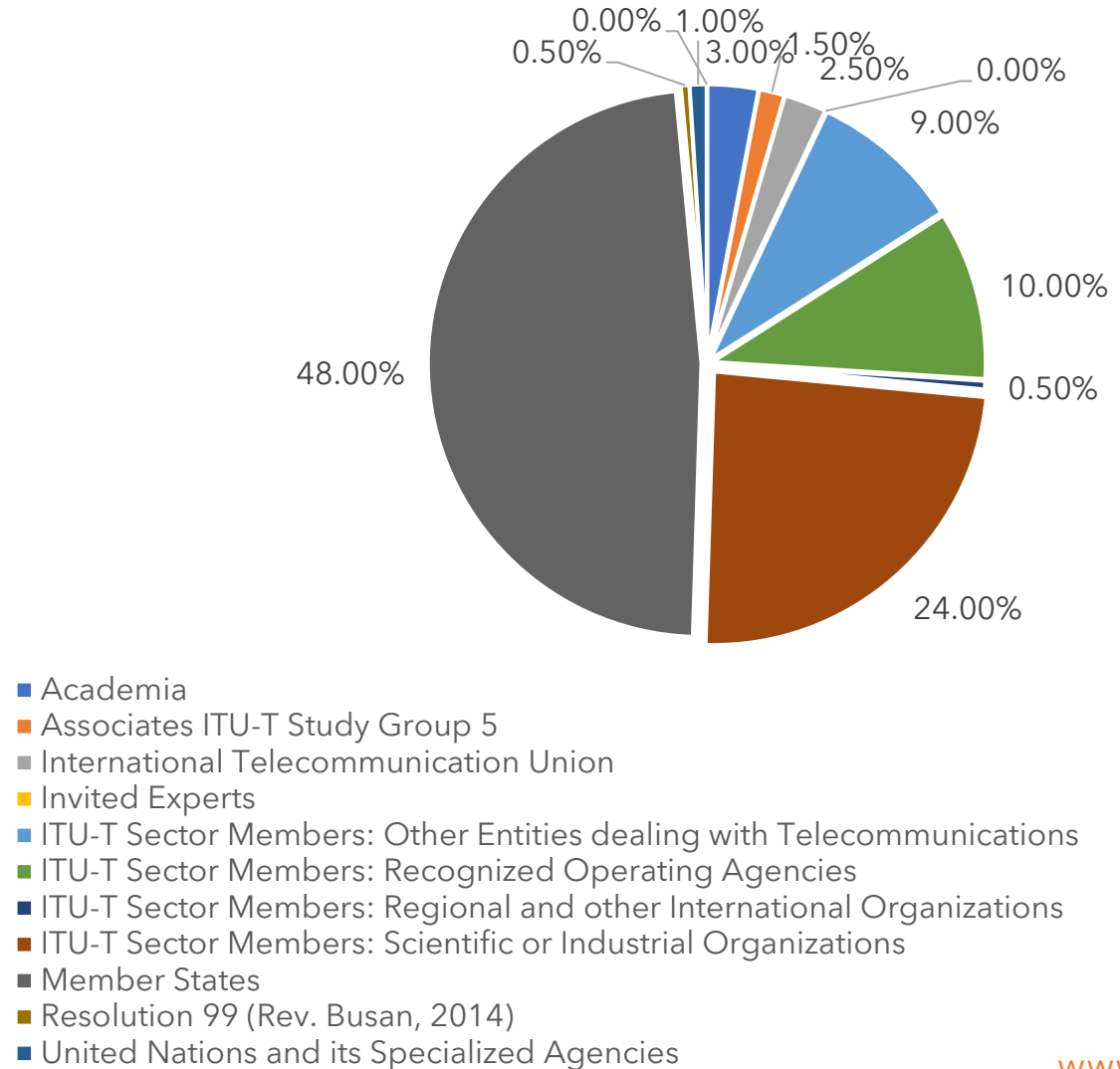
- **Dates:** 3 – 12 June 2025 in Geneva.
- **Statistics and outcomes:**
 - **Participants:** 228 ([TD47-R1](#))
 - **Contributions:** 187 (198 were received but 7 were withdrawn due to duplication and 4 were withdrawn due to number skipped by the system)
 - **TDs** (not counting the revisions): 484
 - **Incoming/ outgoing liaison statements:** 62 incoming liaison statements and 31 outgoing liaison statements ([TD43-R5](#)). See also [LS database](#).
 - **Consented Recommendations:** 24 (of which 8 are revised Recommendations)
 - **Other texts agreed:** 2 at this meeting;
 - **New work items:** 28 at this meeting.



Participants by Region



Participants by Sector



Main Discussions

- The objective of the SG5 meeting were to:
 - Approve the proposed SG5 structure ([TD42-R1](#))
 - Approve the proposed SG5 Working Party Chairs and WP Vice-chairs ([TD3-R1](#))
 - Approve the proposed SG5 Rapporteurs and Associate Rapporteurs ([TD4-R3](#))
 - Approve the allocation of SG5 Work Items to the new Questions ([TD33-R1](#))
 - Nomination of Liaison representatives to other organisations. Some vacancies due to delegates retirements ([TD5-R5](#))
 - Progress the work of the different Questions.



ITU-T Study Group 5 - approved structure

ACRONYM	TITLE
PLEN	
<u>Q8/5</u>	Guidance and terminology on environment
WP1/5	EMC, lightning protection, EMF
<u>Q1/5</u>	Electrical protection, reliability, safety, and security of telecommunication/ICT systems
<u>Q2/5</u>	Equipment specification and component/device for protection against lightning and other phenomena
<u>Q3/5</u>	Assessment of human exposure to electromagnetic fields (EMFs)
<u>Q4/5</u>	Electromagnetic compatibility (EMC) aspects in telecommunications/ICTs
WP2/5	Environmental Efficiency of new and emerging telecommunications/ICTs installations and applications
<u>Q6/5</u>	Environmental efficiency of telecommunications/ICTs
<u>Q7/5</u>	E-waste, circular economy, and sustainable supply chain management
WP3/5	New and emerging telecommunications/ICTs solutions for Climate Action towards Net Zero emissions
<u>Q9/5</u>	Assessing the impact of telecommunications/ICTs on climate change, biodiversity and the environment - including the influence on other sectors
<u>Q11/5</u>	Climate change mitigation and smart energy solutions
<u>Q12/5</u>	Climate actions and adaptation to climate change through sustainable and resilient telecommunications/ICTs (including new and emerging)

Results by Working Party and Q8/5

	WP1/5	WP2/5	WP3/5	Q8/5	Total
Report	TD20-R1	TD25-R3	TD29-R6	TD28-R1	-
New Work Items	6	12	10	-	28
Consented Recommendations	6	14	4	-	24
Agreed Documents	0	1	0	1	2

Consented Recommendations – Revised (1)

ITU-T Rec. Number	Title	Question	TD
K.147	Protection of digital ports connected to balanced pairs of conductors	2/5	TD348
K.113	Generation of radiofrequency electromagnetic field level maps	3/5	TD321-R4
K.61	Guidance on measurement and numerical prediction of electromagnetic fields for compliance with human exposure limits for telecommunication installations	3/5	TD382
K.49	Test requirements and performance criteria for voice terminal telephones subject to disturbance from digital mobile telecommunications systems	4/5	TD307-R1
K.54	Conducted immunity test method and level at fundamental power frequencies	4/5	TD311
L.1206	Impact on information and communication technology equipment architecture of multiple AC, –48 VDC or up to 400 VDC power inputs	6/5	TD289

Consented Recommendations – Revised (2)

ITU-T Rec. Number	Title	Question	TD
L.1007 Cor.1	Test suites for assessment of the external universal power adapter solutions for portable information and Communication technology devices	7/5	TD455-R1
L.1480rev	Enabling the Net Zero transition: Assessing how the use of information and communication technology solutions impacts greenhouse gas emissions of other sectors	9/5	TD368

Consented Recommendations - New (1)

ITU-T Rec. Number	Work item or provisional name	Title	Question	TD
K.pids	K.158	Practical guidance for protection of the indoor distribution system for mobile communication in large-scale physical buildings	1/5	TD297-R3
L.EE_sgpu	L.1311	Energy Efficiency measurement methodology and metrics for heterogeneous servers	6/5	TD287
L.MCI_Gen	L.1395	Monitoring and Control Interface for Infrastructure Equipment (Power, Cooling and Building Environment Systems used in Telecommunication Networks) - Generic Interface	6/5	TD374
L.MCI_MIM	L.1396	Monitoring and Control Interface for Infrastructure Equipment (Power, Cooling and Building Environment Systems used in Telecommunication Networks) - ICT equipment power, energy and environmental parameters monitoring information model	6/5	TD338-R1
L.MCI_Bat	L.1397	Monitoring and control interface for infrastructure equipment (Power, Cooling and environment systems used in telecommunication networks) - Battery system with integrated control and monitoring information model	6/5	TD294-R1
L. ME_DD	L.1025	Assessment of material efficiency of ICT network infrastructure goods (circular economy); Part 2: Server and data storage product secure data deletion functionality	7/5	TD326

Consented Recommendations – New (2)

ITU-T Rec. Number	Work item or provisional name	Title	Q	TD
L.ME_AF	L.1080	Assessment of material efficiency of ICT network infrastructure goods (circular economy); Part 3 Server and data storage product availability of firmware and of security updates to firmware	7/5	TD325
L.DMTT	L.1018	Specification for the durability assessment of mobile telecommunication terminals	7/5	TD302-R2
L.UFCS	L.1004	Universal Fast Charging Solution for mobile terminals	7/5	TD310-R2
L.DLB	L.1011	Guidelines for the durability assessment of Lithium-ion Batteries	7/5	TD298-R2
L.GPSIM	L.1081	Good practices for the sanitization of the information media in end-of-life ICT user devices	7/5	TD303
L.e-waste-collection	L.1037	Guidelines on the collection, pre-treatment, dismantling, valorization and final disposal of WEEE	7/5	TD397

Consented Recommendations – New (3)

ITU-T Rec. Number	Work item or provisional name	Title	Question	TD
L.CircularCity KPIs	L.1621	Key Performance Indicators for circular cities	7/5	TD327-R1
L.WHR	L.1328	Specification for waste heat reuse in telecommunication rooms and data centers	11/5	TD304-R4
L.MM&BP_IP	L.1491	Measurement methodology and best practices for decarbonization of industrial park in support of net zero	11/5	TD314-R4
L.KPIs_Infratructure	L.1510	Environmental Key Performance Indicators for Digital Infrastructure Adapting to Climate Change	12/5	TD337-R3

Agreed Documents

Informative texts

Document	Work item or provisional name	Title	Question	TD
Technical Report to L.1071	L.TR-CONF-to-L.1071	Guidance on conformity assessment of ICT goods/products to standards for ITU-T L.1071/ETSI ES 204 082	7/5	TD354
L.Suppl.61	L.supAiter	Standardized glossary of terms of AI and other Emerging Technologies to Ensure Environmental Efficiency	8/5	TD270-R1

Approved New Work Items (1)

ITU-T Rec. Number	Title	Question	TD
K.Actual_Max	Guidance on implementation of Actual Maximum Approach for assessment, evaluation, compliance and monitoring of RF EMF	3/5	TD394-R1
K.83	Monitoring of electromagnetic field levels	3/5	TD386
K.Suppl.32	Case studies of radio frequency-electromagnetic field (RF-EMF) assessment	3/5	TD417
K.61	Guidance on measurement and numerical prediction of electromagnetic fields for compliance with human exposure limits for telecommunication installations	3/5	TD382
Revision of K.49	Test requirements and performance criteria for voice terminal telephones subject to disturbance from digital mobile telecommunications systems	4/5	TD313
Revision of K.54	Conducted immunity test method and level at fundamental power frequencies	4/5	TD312
L.Testing_LCR	Testing Guidelines for Cold-plate Liquid Cooled Cabinet in Data Centre	6/5	TD430-R2

Approved New Work Items - Continued (2)

ITU-T Rec. Number	Title	Question	TD
L.DSEC	Requirements for energy efficiency management of data storage in data centres	6/5	TD450-R2
L.Water_DC	Guidance on Water Conservation Strategies in Data Centres	6/5	TD395-R1
L.Suppl_SBS	Solutions and Practices for Sustainable Base Station Sites in Off-grid Remote Area	6/5	TD406-R2
L.TR_750VDC	750 V DC power feeding systems for data centre	6/5	TD410-R1
L.MF_ACinDC	Monitoring framework for low-voltage AC power feeding system in data centre	6/5	TD456-R1
L.1022rev	Circular economy: Definitions and concepts for circular economy for information and communication technology	7/5	TD339
L.SPV_EOL	Framework and Requirements for Sustainable End-of-Life Management of Solar Photovoltaic Panels	7/5	TD460

Approved New Work Items - Continued (3)

ITU-T Rec. Number	Title	Question	TD
L.EW_INT_ACT	E-Waste Lifecycle Integrity and Accountability	7/5	TD340
L.GDSR	Guidelines for Data Sanitization and Resource Recovery of End-of-Life Storage Devices	7/5	TD341-R1
L.TR-CONF-to-L.1071	Guidance on conformity assessment of ICT goods/products to standards for ITU-T L.1071/ETSI ES 204 082	7/5	TD355-R1
L.DPIS	Guidelines for a modular and scalable data system design of Digital Product Information Systems (DPIS) for ICT products	7/5	TD352-R2
L.ITservices_foot print	Methodology to assess the environmental Footprint of data centre IT hosting services and cloud services	9/5	TD404-R1
L.1470rev	Greenhouse gas emissions trajectories for the information and communication technology sector compatible with the UNFCCC Paris Agreement	9/5	TD389-R1
L.Transition Plans	Guidance on Transition Plans in the ICT sector at the national and industry level	9/5	TD479-R1

Approved New Work Items - Continued (4)

ITU-T Rec. Number	Title	Question	TD
L.ESS-adapt	Management system architecture for container-type ESS to support environment-adaptive operation	11/5	TD331-R4
L.ups_framework	Management system framework of UPS with Li-ion batteries for infrastructure	11/5	TD334-R4
L.MMOC	Multi microgrid scheduling architecture and scenario requirements aiming for reduction of GHG emissions	11/5	TD332-R4
L.TLB	Full time immersion liquid temperature-controlled Lithium Iron Phosphate battery systems	11/5	TD329-R2
L.TR_GHG_DR	Mechanism and framework of power grid demand response based on GHG emission factor	11/5	TD333-R4
L.Carbon_SLP	Guidelines for the Construction of Smart Low-Carbon Power Supply Facilities Adapted to Island Biodiversity	12/5	TD385-R3
L.ICT4LGTL	Guidelines of Using ICTs for Low Carbon Transition of Logistics	12/5	TD393-R2

ITU-T SG5 Regional Groups

ITU-T Study Group 5 Regional Group for Latin America (SG5RG-LATAM)

Since June 2024, the SG5RG-LATAM has held two meetings:

- **Lima, Peru, 5 September 2024.**

This meeting was preceded by a Session on Environmental Sustainable Tech in Latin America: Standards for E-Waste Management, Circular Economy and GHG Emissions Reduction ([English](#) | [Spanish](#)). These events were organized jointly with the ITU Policy and Economics Colloquium for the Americas (IPEC 24). The meeting was attended by 13 participants from five countries.

The report of this meeting is available as [SG5RG-LATAM Report 1](#).

- **Santo Domingo, Dominican Republic, 6-8 May 2025.**

This meeting was kindly hosted by the Instituto Dominicano de las Telecomunicaciones (INDOTEL) Dominican Republic. The meeting was a joint meeting with ITU-T SG20RG-LATAM.

These meetings were organized in conjunction with the following events:

- 6-7 May 2025: INDOTEL 4.0
- 8 May 2025: [Forum on Sustainable Digital Transformation in Latin America](#)

The meeting was attended by 38 participants from 14 countries. Additionally, the SG5RG-LATAM agreed to the revised Terms of Reference as contained in [TD254](#).

The report of the SG5RG-LATAM is available as [TD253](#) and [SG5RG-LATAM Report 1](#).

Dates of the next ITU-T SG5 meeting and upcoming events



- **WSIS side event** - [Digital solutions for sustainability: ICT's role in GHG reduction and biodiversity protection](#), Geneva, 8 July 2025
- **WSIS side event** - [From data to impact: Digital Product Information Systems and the importance of traceability for global environmental governance](#), Geneva, 8 July 2025
- **AI4Good Workshop** - [Navigating the Intersect of AI, Environment and Energy for a Sustainable Future](#), Geneva, 10 July 2025
- **ITU-T Study Group 5**, Geneva, 29 October – 6 November 2025 (tbc)



Thank you!



Main decisions taken by WTSA

The Study Group 5 Chair provided a brief overview of the highlights of WTSA-24. The following TDs and Documents were presented and noted:

- [TD40-R1](#) - Highlights of WTSA-24 relevant to ITU-T Study Group 5
- [Resolution 2 \(Rev. New Delhi, 2024\)](#) "Scope and mandate of the ITU Telecommunication Standardization Sector study groups". See section related to "Mandate of Study Group 5: Area of responsibility, Lead Study Group, Points of Guidance, Recommendations under its responsibility"
- [C1](#) - Title, mandate, lead roles, points of guidance and Questions for ITU-T Study Group 5 in the study period 2025-2028
- [TD41-R1](#) - WTSA-24 Resolutions of interest to Study Group 5
- [TD261](#) - Draft Action plans for implementation of WTSA-24 Resolutions 72, 73 and 79 (Rev. New Delhi, 2024) (Environment, climate action, circular economy and electromagnetic fields)
- [WTSA-24 Proceedings](#) - Review of new/revised Resolutions and A-series Recommendations