

Highlights of SG5 meeting results

Geneva, 29 October – 6 November 2025

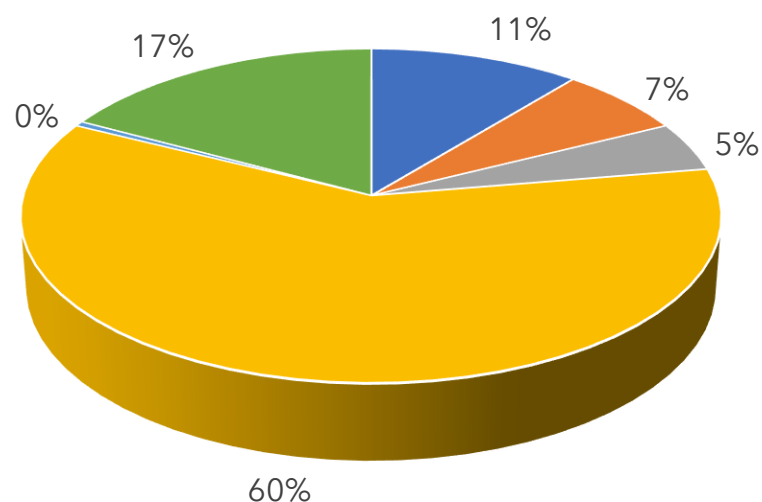


General Information

- **Dates:** 29 October – 6 November 2025 in Geneva.
- **Statistics and outcomes:**
- **Participants:** 215 ([TD527-R1](#))
 - **Contributions:** 185 Contributions received.
 - **TDs** (not counting the revisions): 360
 - **Incoming/ outgoing liaison statements:** 42 incoming liaison statements and 27 outgoing liaison statements [TD524-R4](#). See also [LS database](#).
 - **Consented Recommendations:** 18 (of which 6 are revised Recommendations)
 - **Other texts agreed:** 21 Supplement;
 - **New work items:** 36 at this meeting.

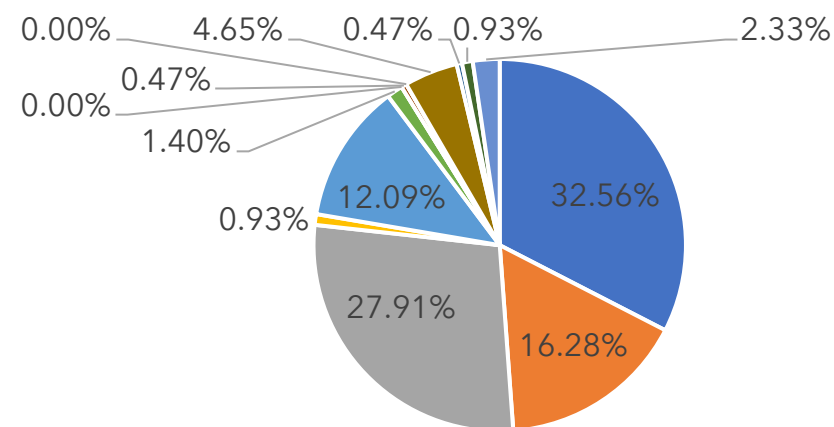


Participants by Region



■ Africa ■ The Americas ■ Arab States
■ Asia & Pacific ■ CIS ■ Europe

Participants by Sector



- Member States
- ITU-T Sector Members: Recognized Operating Agencies
- ITU-T Sector Members: Scientific or Industrial Organizations
- ITU-T Sector Members: Regional and other International Organizations
- ITU-T Sector Members: Other Entities dealing with Telecommunications
- Associates ITU-T
- Regional Organizations
- Permanent Missions
- United Nations and its Specialized Agencies
- Academia
- Resolution 99 (Rev. Busan, 2014)
- Invited Experts / Guests
- International Telecommunication Union

Results by Working Party and Q8/5

	WP1/5	WP2/5	WP3/5	Q8/5	Total
Report	TD510-R4.	TD515-R3.	TD519-R5.	TD518-R2	-
New Work Items	8	20	8	1	37
Consented Recommendations	6	6	6	0	18
Agreed Documents	0	1	0	0	1

Consented Recommendations - Revised (1)

ITU-T Rec. Number	Title	Question	TD
K.58	EMC, resistibility and safety requirements and guidance for determining responsibility under co-located information and communication technology installations	4/5	TD674
K.59	Electromagnetic compatibility, resistibility and safety requirements and procedures for connection to unbundled cables	4/5	TD671
K.63	Maintaining the suitability of production telecommunications equipment to its intended electromagnetic environment	4/5	TD670
K.127	Immunity requirements for telecommunication equipment in close proximity use of wireless devices	4/5	TD672
L.1450	Methodologies for the assessment of the environmental impact of the information and communication technology sector	9/5	TD778
L.1210 (jointly with ETSI TC EE)	Sustainable power-feeding solutions for 5G networks	6/5	TD660-R1 TD705 (A.5)

Consented Recommendations - New (1)

ITU-T Rec. Number	Work item or provisional name	Title	Question	TD
K.160	K.devices	RF-EMF exposure assessment of wireless communication devices operating close to the human body	3/5	TD693-R2 TD818 (A.5)
K.159	K.plc.emc	Electromagnetic compatibility requirements and measurement methods for outdoor equipment and installation using power line communication	4/5	TD750-R1 TD800 (A.5)
L.1341	L.EEIoT	Functional Requirements for Energy Efficiency for Intelligent Internet of Things Platform	6/5	TD697-R1
L.1322	L.thermal_DC	Multi-level metrics for thermal environment and thermal performance of Data Centre	6/5	TD707-R1
L.1308	L.low_DC	Guidelines for the implementation of low carbon data centres to climate change mitigation and adaptation	6/5	TD714-R1
L.1211	L.PV_base station	Smart controlling methods for photovoltaic system installed in base station site	6/5	TD710-R1

Consented Recommendations – New (2)

ITU-T Rec. Number	Work item or provisional name	Title	Q	TD
L.1041	L.Env.TSPC	Resource saving, e-waste reduction and energy saving system methodology using twisted single pair cable	7/5	TD762
L.1411	L.SimplifiedLCA (jointly with ETSI TC EE)	Guidance on simplified life cycle assessments of Information and Communication Technologies	9/5	TD737-R3
L.1801	L.EnvAI (jointly with ETSI TC EE)	Guidelines for Assessing the Environmental Impact of Artificial Intelligence systems	9/5	TD713-R2
L.1421	L.GHGemissions_B S	Methodologies for accounting Greenhouse Gas Emissions of Base Station Sites	9/5	TD751
L.1520	L.NZ_Indicator & BP	Enablement indicator of information and communication technologies to other sectors and best practices to achieve Net Zero goal	11/5	TD734-R2
L.1385	L.SE_MI	Smart Energy Solutions for Manufacturing Industry	11/5	TD675-R3

Agreed Documents

Informative texts

Document	Work item or provisional name	Title	Question	TD
K.Suppl.25	K.Suppl.25	Long reach single twisted-pair Ethernet resistibility testing	2/5	TD780

Approved New Work Items (1)

ITU-T Rec. Number	Title	Question	TD
Rev K.47	Protection of telecommunication lines against direct lightning flashes	1/5	TD739 (A.1)
Rev K.87	Guide for the application of electromagnetic security requirements - Overview	1/5	TD686 (A.1)
KSTR-safety-zones	Impact of public safety zones and compliance distances on telecommunication network development and deployment	3/5	TD806-R1 (A.13)
Rev K.58	EMC, resistibility and safety requirements and guidance for determining responsibility under co-located information and communication technology installations	4/5	TD744 (A.1)
Rev K.59	Electromagnetic compatibility, resistibility and safety requirements and procedures for connection to unbundled cables	4/5	TD743 (A.1)
Rev K.63	Maintaining the suitability of production telecommunications equipment to its intended electromagnetic environment	4/5	TD742 (A.1)
Rev K.127	Immunity requirements for telecommunication equipment in close proximity use of wireless devices	4/5	TD745-R2 (A.1)

Approved New Work Items - Continued (2)

ITU-T Rec. Number	Title	Question	TD
KSTR_emc.uav	Electromagnetic Compatibility (EMC) Test Methods for Civilian Unmanned Aerial Vehicle (UAV) with Cellular Communication Modules	4/5	TD763-R1 (A.13)
L.1205rev	Interfacing of renewable energy or distributed power sources to up to 400 VDC power feeding systems	6/5	TD783 (A.1)
L.MCI_APS	Monitoring and Control Interface for Power, Cooling and Building Environment Systems in Telecommunication Networks - Alternative Power Systems	6/5	TD782-R1 (A.1)
L.SDC	Technical requirements of implementation for subsea data centres	6/5	TD678-R2 (A.1)
L.optim_DC	Methodologies of optimization for multi-level thermal environment of Data Centre	6/5	TD709-R1 (A.1)
LSTR_PET_DC	Application of power electronic transformers for reducing energy consumption and carbon emissions in data centres	6/5	TD681-R2 (A.13)
L.Arch_AI energy	Specification of energy supply system architecture for artificial intelligence computing scenarios	6/5	TD683-R2 (A.1)

Approved New Work Items - Continued (3)

ITU-T Rec. Number	Title	Question	TD
L.MM_AI model	Energy efficiency metrics and measurement methodology for artificial intelligence large model	6/5	TD685-R1 (A.1)
L.EC&MM-IoTD	Energy consumption metrics and measurement methodology of constrained IoT sensor devices in smart grid	6/5	TD700-R2 (A.1)
LSTR_ECEM-SN	Energy consumption and efficiency metrics for operators of 5G networks in shared network scenario	6/5	TD692-R1 (A.13)
L.Suppl.QAEE to ITU-T L.1331	Study of QoS-aware energy efficiency metric of mobile networks	6/5	TD695-R2 (A.13)
L.AZB	Aqueous Zinc-Based Battery Systems for Base Station Applications	6/5	TD771-R3 (A.1)
L.VPP_DC	Functional requirements and implementation guidance of virtual power plants at data centres	6/5	TD785-R1 (A.1)
L.DSBS	Application practice of Direct Current dual-cooling source air conditioner utilizing compressor and heat pipe in base station	6/5	TD788-R1 (A.1)

Approved New Work Items - Continued (4)

ITU-T Rec. Number	Title	Question	TD
L.safe_bat	Guidelines of safety applications for lithium iron phosphate battery in data centres	6/5	TD796-R2 (A.1)
L.TLCsafe_bat	Safety Technical Specifications for Lithium Batteries in Telecom Sites	6/5	TD799-R2 (A.1)
L.NTLB	Non-Full-Time Immersion Liquid Temperature-controlled Lithium Iron Phosphate Battery Systems for Information and Telecommunication Applications	6/5	TD791-R2 (A.1)
L.REDC_EM	Framework of Energy Management System for Data Centres Using Directly Connected Renewable Energy Sources	6/5	TD766-R4 (A.1)
ITU-T L.CRT-EoL	Guidelines for sustainable management and safe disposal of CRT waste	7/5	TD696-R1 (A.1)
ITU-T L.RRTE	Guidelines for Advancing Resource Recovery from end-of-life Telecom Equipment	7/5	TD816-R2 (A.1)
L.CU_AI	Guidelines for Circular Utilization of Artificial Intelligence Computing Power Resources	7/5	TD803-R1

Approved New Work Items - Continued (5)

ITU-T Rec. Number	Title	Question	TD
L.CP	Standardized Terminology for Computing power resources and Grid Power resources Coordination	8/5	TD702-R1 (A.1)
L.Env_storage	Environmental Impact Assessment Guideline for Data Storage Devices	9/5	TD775-R1 (A.1)
L.SupplExamplesAI	Examples of assessments of artificial intelligence systems	9/5	TD836-R1 (A.13)
L.AggregatedAI	Guidelines for Assessing the Environmental Impact of Artificial Intelligence aggregated at worldwide, country and city level	9/5	TD835-R1 (A.1)
L.Score_AI	Guidance for scoring artificial intelligence systems from the perspective of environmental impact	9/5	TD842-R2 (A.1)
L.GEMS_VPP	Framework of GHG Emission Management System for Virtual Power Plant Environment	11/5	TD754-R4 (A.1)
L.VPP_RC	Implementation of a virtual power plant at residential communities	11/5	TD757-R3 (A.1)

Approved New Work Items - Continued (6)

ITU-T Rec. Number	Title	Question	TD
L.ICT_VPP	Framework and methodology for assessing ICT-based virtual power plants to climate change mitigation	12/5	TD747-R3 (A.1)
L. FR_DT_MI	Framework and Guidelines for Addressing and adapting Climate Change through Digital Transformation of Manufacturing Industry	12/5	TD761-R2 A.1

ITU-T SG5 Regional Groups

ITU-T Study Group 5 Regional Group for the Arab Region

The ITU-T Study Group 5 Regional Group for the Arab Region (SG5RG-ARB) was held fully virtual on 3 September 2025.

The meeting was attended by 21 participants from 12 countries. The meeting received five Contributions and addressed 21 TDs.

Additionally, the SG5RG-ARB agreed to the revised Terms of Reference as contained in [TD646](#).

As the result of the SG5RG-ARB meeting, four Contributions were submitted for the Study Group 5 meeting.

The SG5RG-ARB management team was updated as shown [here](#).

The report of the SG5RG-ARB is available as [TD595](#) and [SG5RG-ARB Report 1](#).

ITU-T Study Group 5 Regional Group for Africa

The ITU-T Study Group 5 Regional Group for Africa (SG5RG-AFR) will be held from 10 to 13 February, in Equatorial Guinea.

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



UNEA Side event on: Digital Product Information Systems for a resilient planet: Advancing circularity and transparency

10 December 2025,
13:15 – 14:45 (Nairobi time),
UNEP Headquarters, Nairobi, Kenya

Second IEEE-ITU Symposium on Achieving Climate Resilience Accelerating the Energy Transition and Digital Connectivity for Global Impact

(Geneva, 16-17 December 2025)

ITU-T SG5 Regional Group for Africa (SG5RG-AFR)

Republic of Equatorial Guinea
10-13 February 2026

ITU-T SG5 meeting – pending confirmation if it can be hosted abroad to avoid the overlap with a major Muslim religious celebration
Geneva, 21-29 May 2026 (tbc)



Thank you!

