

Green ICT

- International level -

ISO/IEC JTC 1/SC 39 - Sustainability, IT and data centres

Scope (extract)	Standardization of assessment methods, design practices, operation and management aspects to support resource efficiency, resilience and environmental sustainability for and by information technology, data centres and other facilities and infrastructure necessary for service provisioning.	
Committee information	Published standards	33
	Standards under development	9

Major "ISO/IEC JTC 1/SC 39" standards

Published standards	ISO/IEC TS 20125-1:2026	Information technology — Digital services ecodesign — Part 1: Ecopractices for life cycle stages
	ISO/IEC TS 8236-series	Information technology — Provisioning, forecasting and management
	ISO/IEC 22237-series	Information technology — Data centre facilities and infrastructures
	ISO/IEC TR 30133:2023	Information technology — Data centres — Practices for resource-efficient data centres
Standards under development	ISO/IEC WD TR 25953	Information technology — IT and sustainability - AI and sustainable provisioning of IT and data centres
	ISO/IEC AWI TR 26806	Information technology — IT and sustainability — Resource-efficient software landscape
	ISO/IEC AWI 30134-6	Information technology — Data centres key performance indicators — Part 6: Energy Reuse Factor (ERF)
	ISO/IEC AWI 30134-9	Information technology — Data centres key performance indicators — Part 9: Water usage effectiveness (WUE)

ITU-T SG5 - Environment, climate action, circular economy and electromagnetic fields

Scope (extract)	ITU-T Study Group 5 (SG5) develops international standards to promote an environmentally sustainable, resilient and inclusive telecommunications/ICT sector. It focuses on enabling safe, resilient, efficient and responsible ICT development through global standardization.	
Committee information	Published standards	328
	Standards under development	139

Major "ITU-T SG5 " standards

Published standards	ITU-T L.1331 (07/26)	Assessment of mobile network energy efficiency (Related supplement: L Suppl. 62 (06/2026))
	ITU-T L.1041 (12/2025)	Resource saving, e-waste reduction and energy saving system methodology using twisted single-pair cable
	ITU-T L Suppl. 61 (06/2025)	Standardized glossary of terms of artificial intelligence and other emerging technologies related to environmental efficiency (Supplement to ITU-T L-series Recommendations)
Standards under development	L.AIA_RS	Framework of AI agents in resource scheduling for environmentally efficient data center infrastructure
	L.Arch_AI energy	Specification of energy supply system architecture for Artificial Intelligence computing scenarios
	L.DLEE	Deep Learning Computation Energy Efficiency Evaluation Framework and Metrics

- European level -

ETSI/TC EE - Environmental Engineering

Scope	ETSI's Technical Committee on Environmental Engineering (TC EE) is responsible for defining environmental and infrastructural aspects for Information & Communication Technology (ICT) equipment and networks, including for equipment installed in data centres, indoors and outdoors, on subscriber premises and for mobile devices. Aspects of this work include: conditions of installations, power supply, earthing and bonding, environmental impact, energy efficiency, sustainability and circularity of ICT equipment.	
Committee information	Published standards	257
	Standards under development	30

Major "ETSI/TC EE" standards

Published standards	ETSI ES 204 085 V1.1.1 (2026-06)	Guidance on simplified Life Cycle Assessments (LCA) of Information and Communication Technologies (ICT)
	ETSI ES 203 700 V1.2.1 (2025-09)	Sustainable power feeding solutions for 5G network
	ETSI EN 301 575 V1.2.1 (2025-06)	Measurement method for energy consumption of Customer Premises Equipment (CPE)
Standards under development	RTR/EE-02115 (TR 102 532)	The use of alternative energy solutions in telecommunication installations
	REN/EE-EEPS42 (EN 303 470)	Energy Efficiency measurement methodology and KPI/metrics for Servers
	DTR/EE-EEPS58 (TR 104 084)	multi-dimensional network energy efficiency metrics
	DES/EE-EEPS75 (ES 204 133)	Standardization of computing power efficiency measurement methods for computing center and Guidelines on improving the computing energy-efficiency of data centre

ETSI/ISG OEU - Operational energy Efficiency for Users

Scope	ETSI's Industry Specification Group on Operational energy Efficiency for Users (ISG OEU) addresses operational eco-efficient ICT, including power consumption and greenhouse gas emissions related to infrastructure, equipment and software within ICT sites and networks.	
Committee information	Published standards	21
	Standards under development	7

Major "ETSI/ISG OEU" standards

Published standards	ETSI GS OEU 020 V1.1.1 (2020-03)	Carbon equivalent Intensity measurement; Operational infrastructures; Global KPIs; Global KPIs for ICT Sites
	ETSI GS OEU 005 V1.1.1 (2018-07)	Data Management for Global KPI of ICT Site Energy Management
Standards under development	DGR/OEU-0036 (GR OEU 036)	Eco-responsible Digital Solutions for Smart Buildings
	DGR/OEU-0037 (GR OEU 037)	Evolutions in Fixed Radio Systems architectures towards improved eco-efficiency
	DGR/OEU-0038 (GR OEU 038)	Wireless and Wireline network service Lifecycle within user premises

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