

Energianhallinnan ja hiilidioksidin talteenoton standardien tilannekatsaus

Tässä tilannekatsauksessa esitetään teknisten komiteoiden CEN/CLC/JTC 14, CEN/TC 474, ISO/TC 263, ISO/TC 265, ISO/TC 301 ja ISO/TC 341 julkaisut ja työkohteet.

Keltaisella on merkitty viime tilannekatsaukseen (3.11.2025) nähden muuttuneet tiedot

FI tarkoittaa, että julkaisusta on suomenkielinen käännös.

Lisätietoja: www.metsta.fi
[ville.saloranta\(at\)metsta.fi](mailto:ville.saloranta(at)metsta.fi)

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1. CEN/CLC/JTC 14 Energy management and energy efficiency in the framework of energy transition

Julkaisut:

FI	DIR	Tunnus	Otsikko
FI	-	EN 15900:2010	Energy efficiency services - Definitions and requirements
FI	-	EN 16212:2012	Energy Efficiency and Savings Calculation, Top-down and Bottom-up Methods
	-	EN 16231:2012	Energy efficiency benchmarking methodology
FI	-	EN 16247-1:2022	Energy audits - Part 1: General requirements
FI	-	EN 16247-2:2022	Energy audits - Part 2: Buildings
FI	-	EN 16247-3:2022	Energy audits - Part 3: Processes
FI	-	EN 16247-4:2022	Energy audits - Part 4: Transport
FI	-	EN 16247-5:2015	Energy audits - Part 5: Competence of energy auditors
FI	-	EN 16325:2025	Guarantees of origin related to energy
	-	EN 17267:2019	Energy measurement and monitoring plan - Design and implementation - Principles for energy data collection
	-	EN 17463:2021+A1:2025	Valuation of Energy Related Investments (VALERI)
	-	EN 17669:2022	Energy Performance Contracts - Minimum requirements
FI	-	EN ISO 50001:2018	Energy management systems - Requirements with guidance for use (ISO 50001:2018)
	-	EN ISO 50001:2018/A1:2024	Energy management systems - Requirements with guidance for use - Amendment 1: Climate action changes (ISO 50001:2018/Amd 1:2024)
	-	EN ISO 50005:2022	Energy management systems - Guidelines for a phased implementation (ISO 50005:2021)

Tekeillä:

DIR	Tunnus	Otsikko	Vaihe	Vaiheen pvm
-	prEN XXX	Values and Benefits of Decarbonisation and Energy Performance Actions - A General Framework for Assessment	Työkohde hyväksytty	16.4.2025

2. CEN/TC 474 Carbon dioxide Capture, transportation, Utilisation, and Storage (CCUS)

Julkaisut:

FI	DIR	Tunnus	Otsikko
-		EN ISO 27913:2025	Carbon dioxide capture, transportation and geological storage - Pipeline transportation systems (ISO 27913:2024)

Tekeillä:

DIR	Tunnus	Otsikko	Vaihe	Vaiheen pvm
-	prEN 18329	Measurement of CO2 streams -" Sampling and analysis for pipeline transportation	Lausuntoluonnos lähetetty	16.12.2025
-	prEN ISO 27917	Carbon dioxide capture, transportation and geological storage -" Vocabulary -" Cross cutting terms	Työkohde hyväksytty	3.7.2025
-		Properties of CO2 streams	Työkohde hyväksytty	1.7.2024

-	Negative emission technologies (NET), e.g. BECCS and DACCS, and their potential for carbon dioxide removal (CDR)	Työkohde hyväksytty	1.12.2024
-	CO2 capture, transportation, utilization, storage and carbon accounting - Properties of carbon dioxide and carbon dioxide streams for low pressure tank transport	Alustava työkohde	4.9.2025
-	CO2 capture, transportation, utilization, storage and carbon accounting - Properties of carbon dioxide and carbon dioxide streams for medium pressure tank transport	Alustava työkohde	4.9.2025
-	CO2 capture, transportation, utilization, storage and carbon accounting - Properties of carbon dioxide and carbon dioxide streams for elevated pressure tank transport	Alustava työkohde	4.9.2025

3. ISO/TC 263 Coalbed methane (CBM)

Julkaisut:

FI	Tunnus	Otsikko
	ISO 18871:2015	Method of determining coalbed methane content
	ISO 18875:2015	Coalbed methane exploration and development — Terms and definitions
	ISO 23604:2022	Method of determining specific surface area of coal
	ISO 4657:2022	Assessment specification of coalbed methane resources

Tekeillä:

Tunnus	Otsikko	Vaihe	Vaiheen pvm
ISO/DIS 25195	Evaluation method of coalbed methane recoverability	Lausuntovaihe alkaa	10.11.2025
ISO/CD 22355	Technical specifications for coalbed methane polyethylene gathering and transportation pipeline project	Palautettu työryhmälle	27.8.2025

4. ISO/TC 265 Carbon Capture and storage (CCM)

Julkaisut:

FI	Tunnus	Otsikko
	ISO 27913:2024	Carbon dioxide capture, transportation and geological storage — Pipeline transportation systems
	ISO 27914:2017	Carbon dioxide capture, transportation and geological storage — Geological storage
	ISO 27916:2019	Carbon dioxide capture, transportation and geological storage — Carbon dioxide storage using enhanced oil recovery (CO ₂ -EOR)
	ISO 27917:2017	Carbon dioxide capture, transportation and geological storage — Vocabulary — Cross cutting terms
	ISO 27919-1:2018	Carbon dioxide capture — Part 1: Performance evaluation methods for post-combustion CO ₂ capture integrated with a power plant
	ISO 27919-2:2021	"Carbon dioxide capture — Part 2: Evaluation procedure to assure and maintain stable performance of post-combustion CO ₂ capture"
	ISO 27927:2025	Carbon dioxide capture — Key performance parameters and characterization methods of absorption liquids for post-combustion CO ₂ capture
	ISO 27928:2025	Carbon dioxide capture, transportation and geological storage — Carbon dioxide capture — Performance evaluation methods for CO ₂ capture connected to a CO ₂ intensive plant
	ISO/TR 27912:2016	Carbon dioxide capture — Carbon dioxide capture systems, technologies and processes

ISO/TR 27915:2017	Carbon dioxide capture, transportation and geological storage — Quantification and verification
ISO/TR 27918:2018	Lifecycle risk management for integrated CCS projects
ISO/TR 27921:2020	Carbon dioxide capture, transportation, and geological storage — Cross Cutting Issues — CO2 stream composition
ISO/TR 27922:2021	Carbon dioxide capture — Overview of carbon dioxide capture technologies in the cement industry
ISO/TR 27923:2022	Carbon dioxide capture, transportation and geological storage — Injection operations, infrastructure and monitoring
ISO/TR 27925:2023	Carbon dioxide capture, transportation and geological storage — Cross cutting issues — Flow assurance
ISO/TR 27926:2024	Carbon dioxide capture, transportation and geological storage — Carbon dioxide enhanced oil recovery (CO2-EOR) — Transitioning from EOR to storage
ISO/TR 27929:2024	Transportation of CO2 by ship

Tekeillä:

Tunnus	Otsikko	Vaihe	Vaiheen pvm
ISO 27914	Carbon dioxide capture, transportation and geological storage — Geological storage	Rekisteröity julkaistavaksi	27.12.2025
ISO/DIS 27916	Carbon dioxide capture, transportation and geological storage — Carbon dioxide storage using enhanced oil recovery (CO2-EOR)	Lausuntovaihe päättyy	3.10.2025
ISO/DIS 27917	Carbon dioxide capture, transportation and geological storage — Vocabulary — Cross cutting terms	Lausuntovaihe rekisteröity	15.12.2025
ISO/WD TS 27933	Mineral carbonation — Quantification of CO2 captured through mineral carbonation technology	Luonnoksen kommentointi päättyy	30.10.2025
ISO/AWI 27934	Evaluation of Candidate Existing Fossil Fuel Facilities Suitable for CCS Retrofitting	Työkohde rekisteröity	11.7.2025
ISO/AWI TR 27935	Carbon dioxide capture - Overview of carbon capture technologies in biomass utilisation	Työkohde rekisteröity	8.8.2025
ISO/AWI TR 27936	Traceability of Carbon data in CCS Chain Based on Blockchain	Työkohde rekisteröity	6.6.2025
ISO/AWI TR 27938	Carbon dioxide capture, transportation, and geological storage – Loading and offloading of CO2 at port facilities	Työkohde rekisteröity	8.8.2025
ISO/PWI 27919-1	Carbon dioxide capture — Part 1: Performance evaluation methods for post-combustion CO2 capture integrated with a power plant	Alustava työkohde rekisteröity	17.6.2024
ISO/PWI 27939	Numerical running ductile fractures assessments	Alustava työkohde rekisteröity	10.11.2025
ISO/PWI TR 27937	Metering, Measurement and Quantification Issues Arising Between and Across Elements of a Carbon Dioxide Capture, Transport and Storage Supply Chain	Alustava työkohde rekisteröity	10.4.2025
ISO/PWI TR 27940	CO2 EOR life cycle analysis	Alustava työkohde rekisteröity	10.11.2025
ISO/PWI TR 27942	Emission monitoring and management for amine-based post-combustion CO2 capture plants	Alustava työkohde rekisteröity	10.11.2025
ISO/PWI TS 27941	Transitioning oil and gas production assets to storage	Alustava työkohde rekisteröity	10.11.2025

5. ISO/TC 301 Energy management and energy saving

Julkaisut:

FI	Tunnus	Otsikko
	ISO 17741:2016	General technical rules for measurement, calculation and verification of energy savings of projects
	ISO 17743:2016	Energy savings — Definition of a methodological framework applicable to calculation and reporting on energy savings
	ISO 50001:2018	Energy management systems — Requirements with guidance for use
	ISO 50001:2018/Amd 1:2024	Energy management systems — Requirements with guidance for use — Amendment 1: Climate action changes
	ISO 50002-1:2025	Energy audits — Part 1: General requirements with guidance for use
	ISO 50002-2:2025	Energy audits — Part 2: Guidance for conducting an energy audit using ISO 50002-1 in buildings
	ISO 50002-3:2025	Energy audits — Part 3: Guidance for conducting an energy audit using ISO 50002-1 in processes
	SFS-ISO 50003:2021	Energy management systems — Requirements for bodies providing audit and certification of energy management systems
	SFS-ISO 50004:2020	Energy management systems — Guidance for the implementation, maintenance and improvement of an ISO 50001 energy management system
	ISO 50005:2021	Energy management systems — Guidelines for a phased implementation
	SFS-ISO 50006:2023	Energy management systems — Evaluating energy performance using energy performance indicators and energy baselines
	ISO 50007:2017	Energy services — Guidelines for the assessment and improvement of the energy service to users
	ISO 50009:2021	Energy management systems — Guidance for implementing a common energy management system in multiple organizations
	ISO 50015:2014	Energy management systems — Measurement and verification of energy performance of organizations — General principles and guidance
	ISO 50046:2019	General methods for predicting energy savings
	ISO 50047:2016	Energy savings — Determination of energy savings in organizations
	ISO/IEC 13273-1:2015	Energy efficiency and renewable energy sources — Common international terminology — Part 1: Energy efficiency
	ISO/IEC 13273-2:2015	Energy efficiency and renewable energy sources — Common international terminology — Part 2: Renewable energy sources
	ISO/PAS 50010:2023	Energy management and energy savings — Guidance for net zero energy in operations using an ISO 50001 energy management system
	ISO/TS 50011:2023	Energy management systems — Assessing energy management using ISO 50001:2018
	ISO/TS 50044:2019	Energy saving projects (EnSPs) — Guidelines for economic and financial evaluation

Tekeillä:

Tunnus	Otsikko	Vaihe	Vaiheen pvm
ISO/FDIS 50100	Energy management systems and energy savings — Decarbonization — Requirements with guidance for use	Loppuäänestys alkaa	5.1.2026
ISO/DIS 50012	Energy management systems — Energy data collection plan	Lausuntovaihe rekisteröity	13.1.2026
ISO/WD TR 25479	Integrated district energy system (IDES) - Basic concepts and key initiatives	Luonnoksen kommentointi päättyy	13.2.2025
ISO/WD TR 25480	Integrated district energy system (IDES) - Case studies and principles for good practices in energy performance	Luonnoksen kommentointi päättyy	13.2.2025

6. ISO/TC 341 Heat supply network

Julkaisut:

FI	Tunnus	Otsikko
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Tekeillä:

Tunnus	Otsikko	Vaihe	Vaiheen pvm
ISO/DIS 21026-1	Heat supply network — Vocabulary — Part 1: System	Lausuntovaihe alkaa	15.12.2025
ISO/AWI TR 25819	Good Practice Cases — The Long-distance Heating Network Projects	Työkohde rekisteröity	24.9.2025
ISO/NP 25194	District heating and district cooling networks -- technical requirements for substations components	Työkohdeäänestys alkaa	28.10.2025
ISO/PWI 16605-1	District heating and district cooling networks – Circulation water — Part 1: Water for district heating systems	Alustava työkohde rekisteröity	15.4.2024
ISO/PWI 16605-2	District heating and district cooling networks – Circulation water — Part 2: Water for district cooling systems	Alustava työkohde rekisteröity	15.4.2024
ISO/PWI 25193-1	District heating and cooling supply network – Surveillance systems — Part 1: Electrical wire-based surveillance systems	Alustava työkohde rekisteröity	15.4.2024
ISO/PWI 25193-2	District heating and cooling supply network – Surveillance systems — Part 2: Optical fiber monitoring system	Alustava työkohde rekisteröity	15.4.2024
ISO/PWI 25618-1	Design requirements for district heating and cooling network systems — Part 1: General requirements	Alustava työkohde rekisteröity	14.11.2024