

**INVENTORY OF STANDARDS RELEVANT TO RENEWABLE ENERGY USED FOR THE STUDY
 “INTERNATIONAL STANDARDISATION IN THE FIELD OF RENEWABLE ENERGY”
 PUBLISHED BY THE INTERNATIONAL RENEWABLE ENERGY AGENCY IN MARCH 2013¹**

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
ISO	13065	Bioenergy	Sustainability	2014	Sustainability criteria for bioenergy
CEN	16214-1	Biofuels	Sustainability	2012	Sustainability criteria for the production of biofuels and bioliquids for energy applications - Part 1: Terminology
CEN	16214-2	Biofuels	Sustainability	2012	Sustainability criteria for the production of biofuels and bioliquids for energy applications - Part 2: Conformity assessment including chain of custody and mass balance
CEN	16214-3	Biofuels	Sustainability	2012	Sustainability criteria for the production of biofuels and bioliquids for energy applications - Part 3: Biodiversity and environmental aspects
CEN	16214-4	Biofuels	Sustainability	2012	Sustainability criteria for the production of biofuels and bioliquids for energy applications - Part 4: Calculation methods of the greenhouse gas emission balance using a life cycle analysis
CEN	16214-5	Biofuels	Sustainability	2012	Sustainability criteria for the production of biofuels and bioliquids for energy applications - Principles, criteria, indicators and verifiers - Part 5: Guidance towards definition of residue and waste via a positive list
ISO	NP 17306	Biofuels	Testing, Sampling and Analysis		Biodiesel - Determination of free glycerin, monoglycerides, diglycerides, triglycerides and total glycerin by gas chromatography
ISO	NP 17307	Biofuels	Testing, Sampling and Analysis		Biodiesel - Determination of total esters content by gas chromatography
ISO	NP 17308	Biofuels	Testing, Sampling and Analysis		Test method for electrical conductivity in ethanol

¹ This inventory includes those standards identified from different sources, as of August 2012, as relevant for renewable energy technologies. The list presented is not exhaustive but aims to be representative for the renewable energy field.

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
ISO	NP 17315	Biofuels	Testing, Sampling and Analysis		Ethanol - Determination of total acidity by potentiometric titration
CEN	15439	Biomass Gasification	Testing, Sampling and Analysis	2006	Biomass gasification. Tar and particles in product gases. Sampling and analysis
ISO	17000	Certification	Certification	2004	Conformity assessment - Vocabulary and general principles
ISO	17021	Certification	Certification	2011	Conformity assessment — Requirements for bodies providing audit and certification of management systems (ISO/IEC 17021:2011)
ISO	17024	Certification	Certification	2003	Conformity assessment — General requirements for bodies operating certification of persons
ISO	Guide 65 EN45011 / FDIS17065	Certification	Certification	1998	General requirements for bodies operating product certification systems
ISO	Guide 67	Certification	Certification	2004	Conformity assessment - Fundamentals of product certification
ISP	ISPPQ01022	Certification	Training / Skill / Qualification Evaluation	2009	General Requirements for Trainers and Training Programs Offering Renewable Energy, Energy Efficiency, or Distributed Generation Training
SEIAPI	SEIAPIC&A	Certification	Training / Skill / Qualification Evaluation	2012	SEIAPI Certification and Accreditation Scheme
ANSI	C89.2	Electrical	testing, Sampling and Analysis		DRY-TYPE TRANSFORMERS FOR GENERAL APPLICATIONS
CEN	EN60204-1	Electrical	Cross-cutting	2005	Safety of machinery — Electrical equipment of machines — Part 1: General requirements (IEC60204-1: 2005, modified)
CEN	EN61000-3-11	Electrical	Product	2000	Electromagnetic compatibility (EMC) - Part 3-11: Limits, Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply system: Equipmment with rated current ≤ 75A and subject to conditional connection (IEC 61000-3-11:2000)
CPRI	2026-1	Electrical	Testing, Sampling and Analysis		Transformer

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CPRI	2026-2	Electrical	Testing, Sampling and Analysis		Transformer
CPRI	2026-3	Electrical	Testing, Sampling and Analysis		Transformer
CPRI	2026-4	Electrical	Testing, Sampling and Analysis	1993-09	Ed 2.2:Specification for power transformers - Part IV Terminal Markings, Tappings and Connections
CPRI	3156-1	Electrical	testing, Sampling and Analysis	1992	TEST FEASIBILITY FOR “VOLTAGE TRANSFORMERS”
CPRI	3156-2	Electrical	testing, Sampling and Analysis	1992	TEST FEASIBILITY FOR “VOLTAGE TRANSFORMERS”
CPRI	3156-3	Electrical	testing, Sampling and Analysis	1992	TEST FEASIBILITY FOR “VOLTAGE TRANSFORMERS”
EnergyNetworks	G59/1	Electrical	Installation	1991	Precommendations for the Connection of Embedded Generating Plant to the Public Electricity Suppliers' Distribution Systems
EnergyNetworks	G83/1	Electrical	Installation	2003	Recommendations for the Connection of Small-scale Embedded Generators (up to 16A per phase) in parallel with Low-voltage Distribution Networks
IEC	60227-1-4	Electrical	Product		Polyvinyl chloride insulated cables of rated voltage up to and including 450 V/750 V-Parts 1-4: General requirements
IEC	61000-4	Electrical	Product	1995	Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques, Sections 2-5.
BS	7671	General	Installation	2001	Requirements for Electrical Installations (IEE Wiring Regulations)
BSI	BS8887-2	General	Cross-cutting	2009	Design for manufacture, assembly, disassembly and end-of-life processing (MADE) Part 2: Terms and definitions
BSI	BS8887-220	General	Cross-cutting	2010	Design for manufacture, assembly, disassembly and end-of-life processing (MADE) Part 220: The process of manufacture - Specification
CEN	16001	General	Cross-cutting		Energy Management

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CEN	EN10088-1	General	Product	2005	Stainless steels
IEC	60669-1	General	Product		Switches for household and similar fixed-electrical installations. Part 1: General requirements.
IEC	62093	General	Testing, Sampling and Analysis		Ed. 1.0: BOS components - Environmental reliability testing - Design qualification and type approval.
IEC	CISPR	General	Testing, Sampling and Analysis	1990	Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment.
ISO	50001	General	Cross-cutting		Energy Management
ISO	14713	General	Product	1999	Protection against corrosion of iron and steel structures - Zinc and aluminium coatings - Guidelines
MCS	MCS020	General	Cross-cutting		Planning Standard
MCS	MCS001	General	Installation		Microgeneration Installation Standard: MCS 001 - Installer certification scheme requirements Issue 2.0
MCS	MCS002	General	Installation		Information on Building Regulations and European Directives Issue 1.5
MCS	MCS012	General	Installation		Product Certification Scheme Requirements: Pitched Roof Installation Kits Issue 1.0
MCS	MCS010	General	Product		Product Certification Scheme Requirements: Factory Production Control Requirements Issue 1.5
MCS	MCS011	General	Testing, Sampling and Analysis		Product Certification Scheme Requirements: Acceptance Criteria for Testing Required for Product Certification Issue 1.5
ASTM	E957-03	Geothermal Power	Cross-cutting	2011	Standard Terminology Relating to Geothermal Energy
ASTM	E1008-03	Geothermal Power	Installation	2009	Standard Practice for Installation, Inspection, and Maintenance of Valve-body Pressure-relief Methods for Geothermal and Other High-Temperature Liquid Applications
ASTM	E974-00	Geothermal Power	Performance	2006	Standard Guide for Specifying Thermal Performance of Geothermal Power Systems
ASTM	E1068-85	Geothermal Power	Testing, Sampling and Analysis	2009	Standard Test Method for Testing Nonmetallic Seal Materials by Immersion in a Simulated Geothermal Test Fluid

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ASTM	E1069-85	Geothermal Power	Testing, Sampling and Analysis	2009	Standard Test Method for Testing Polymeric Seal Materials for Geothermal and/or High Temperature Service Under Sealing Stress
ASTM	E927-83(2007)	Geothermal Power	Testing, Sampling and Analysis	2007	Standard Specification for Sampling Single-Phase Geothermal Liquid or Steam for Purposes of Chemical Analysis
CEN	EN60335-2-40	Heat Pumps	Product	2005	Household and similar electrical appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers (IEC 60335-2-40: 2002, modified)
CEN	EN14511-1 / prEN14511-1	Heat Pumps	Product	2007 /2009	Air Conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 1: Terms and Definitions
CEN	EN14511-4 / prEN14511-4	Heat Pumps	Product	2007 /2009	Air Conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 4: Requirements
CEN	EN12102	Heat Pumps	Testing, Sampling and Analysis		Air conditioners, liquid chilling packages, heat pumps and dehumidifiers with electricity driven compressors - Measurement of airborne noise - Determination of the sound power level
CEN	EN14511-2 / prEN14511-2	Heat Pumps	Testing, Sampling and Analysis	2007 /2009	Air Conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 2: Test conditions
CEN	EN14511-3 / prEN14511-3	Heat Pumps	Testing, Sampling and Analysis	2007 /2009	Air Conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 3: Test methods
ISO	FDIS 5149-2	Heat Pumps	Cross-cutting	2013	Refrigerating systems and heat pumps -- Safety and environmental requirements -- Part 2: Design, construction, testing, marking and documentation
ISO	FDIS 5149-1	Heat Pumps	General	2013	Refrigerating systems and heat pumps -- Safety and environmental requirements -- Part 1: Definitions, classification and selection criteria
ISO	FDIS 5149-3	Heat Pumps	Installation	2013	Refrigerating systems and heat pumps -- Safety and environmental requirements -- Part 3: Installation site
ISO	FDIS 5149-4	Heat Pumps	Operation	2013	Refrigerating systems and heat pumps -- Safety and environmental requirements -- Part 4: Operation, maintenance, repair and recovery

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
ISO	13971	Heat Pumps	Product	2013	Refrigeration systems and heat pumps -- Flexible pipe elements, vibration isolators, expansion joints and non-metallic tubes -- Requirements and classification
ISO	13253	Heat Pumps	Testing, Sampling and Analysis	2011	Ducted air-conditioners and air-to-air heat pumps - Testing and rating for performance
ISO	15042	Heat Pumps	Testing, Sampling and Analysis	2011	Multiple split-system air-conditioners and air-to-air heat pumps - Testing and rating performance
ISO	13256-1	Heat Pumps	Testing, Sampling and Analysis	1998	Water-source heat pumps - Testing and rating for performance - Part 1: Water-to-air and brine-to-air heat pumps
ISO	13256-2	Heat Pumps	Testing, Sampling and Analysis	1998	Water-source heat pumps - Testing and rating for performance - Part 1: Water-to-water and brine-to-water heat pumps
ISO	13261-1	Heat Pumps	Testing, Sampling and Analysis	1998	Sound power rating of air-conditioning and air-source heat pump equipment - Part 1: Non-ducted outdoor equipment
ISO	13261-2	Heat Pumps	Testing, Sampling and Analysis	1998	Sound power rating of air-conditioning and air-source heat pump equipment - Part 2: Non-ducted indoor equipment
ISO	DIS 16358-1	Heat Pumps	Testing, Sampling and Analysis	2013	Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors -- Part 1: Cooling seasonal performance factor
ISO	DIS 16358-2	Heat Pumps	Testing, Sampling and Analysis	2013	Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors -- Part 2: Heating seasonal performance factor
ISO	DIS 16358-3	Heat Pumps	Testing, Sampling and Analysis	2013	Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors -- Part 3: Annual performance factor
ISO	PRF 14903	Heat Pumps	Testing, Sampling and Analysis	2013	Refrigerating systems and heat pumps - Qualification of tightness of components and joints
ISO	PRF TS16491	Heat Pumps	Testing, Sampling and Analysis	2013	Guidelines for the evaluation of uncertainty of measurement in air conditioner and heat pump cooling and heating capacity tests
MCS	MIS3005	Heat Pumps	Installation		REQUIREMENTS FOR CONTRACTORS UNDERTAKING THE SUPPLY, DESIGN, INSTALLATION, SET TO WORK COMMISSIONING AND HANDOVER OF MICROGENERATION

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					HEAT PUMP SYSTEMS Issue 3.1a
MCS	MIS3005 v3.1a MCS022	Heat Pumps	Installation		MCS 022: GROUND HEAT EXCHANGER LOOK-UP TABLES - SUPPLEMENTARY MATERIAL TO MIS 3005 Issue 1.0
MCS	MCS007	Heat Pumps	Product		Product Certification Scheme Requirements: Heat Pumps Issue 2.1
IEC	56	Hydro	Cross-cutting	1987	High-voltage alternating-current circuit-breakers. IEC 70: 1967, Power capacitors.
IEC	70	Hydro	Cross-cutting	1967	Power Capacitors
IEC	129	Hydro	Cross-cutting	1984	Alternating current disconnectors (isolators) and earthing switches.
IEC	50(602)	Hydro	Cross-cutting	1983	International Electrotechnical Vocabulary (IEV), Chapter 602: Generation, transmission and distribution of electricity - Generation.
IEC	76-1	Hydro	Cross-cutting	1976	Power transformers - Part 1: General.
IEC	609	Hydro	Installation	1978	Cavitation pitting evaluation in hydraulic turbines, storage pumps and pump-turbines.
IEC	60545	Hydro	Installation	2010	Guide for commissioning, operation and maintenance of hydraulic turbines
IEC	60805	Hydro	Installation	2010	Guide for commissioning, operation and maintenance of storage pumps and of pump-turbines operating as pumps
IEC	61116	Hydro	Installation	2012	Electromechanical equipment guide for small hydroelectric installations
IEC	61362	Hydro	Installation	2012	Corrigendum 1 - Guide to specification of hydraulic turbine control systems
IEC	60609-1	Hydro	Installation	2012	Hydraulic turbines, storage pumps and pump-turbines - Cavitation pitting evaluation - Part 1: Evaluation in reaction turbines, storage pumps and pump-turbines
IEC	60609-2	Hydro	Installation	2012	Cavitation pitting evaluation in hydraulic turbines, storage pumps and pump-turbines - Part 2: Evaluation in Pelton turbines
IEC	TR61364	Hydro	Installation	2010	Corrigendum 1 - Nomenclature for hydroelectric powerplant machinery
IEC	TR61364	Hydro	Installation	2010	Nomenclature for hydroelectric powerplant machinery
IEC	545	Hydro	Operation	1976	Guide for commissioning, operation and maintenance of hydraulic turbines.
IEC	62270	Hydro	Operation	2013	Hydroelectric power plant automation - Guide for computer-based control

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IEC	62270	Hydro	Operation	2004	Edition 1.0 Hydroelectric power plant automation - Guide for computer-based control Stability Date: 2013
IEC	TR61850-7-410	Hydro	Operation	2013	Edition 1.0 Communication networks and systems for power utility automation - Part 7-410: Hydroelectric power plants - Communication for monitoring and control, Stability Date: 2010
IEC	62097	Hydro	Performance	2012	Hydraulic machines, radial and axial - Performance conversion method from model to prototype
IEC	62256	Hydro	Performance	2012	Hydraulic turbines, storage pumps and pump-turbines - Rehabilitation and performance improvement
IEC	34-1	Hydro	Performance	1983	Rotating electrical machines - Part 1: Rating and performance.
IEC	34-2	Hydro	Performance	1972	Rotating electrical machines - Part 2: Methods for determining losses and efficiency of rotating electrical machinery from tests (excluding machines for traction vehicles).
IEC	TR61336-5	Hydro	Pre-Installation	2010	Hydraulic turbines, storage pumps and pump-turbines - Tendering Documents - Part 5: Guidelines for technical specifications for tubular turbines
IEC	TR61336-6	Hydro	Pre-Installation	2010	Hydraulic turbines, storage pumps and pump-turbines - Tendering Documents - Part 6: Guidelines for technical specifications for pump-turbines
IEC	TR61366-1	Hydro	Pre-Installation	2010	Hydraulic turbines, storage pumps and pump-turbines - Tendering Documents - Part 1: General and annexes
IEC	TR61366-2	Hydro	Pre-Installation	2010	Hydraulic turbines, storage pumps and pump-turbines - Tendering Documents - Part 2: Guidelines for technical specifications for Francis turbines
IEC	TR61366-3	Hydro	Pre-Installation	2010	Hydraulic turbines, storage pumps and pump-turbines - Tendering documents - Part 3: Guidelines for technical specifications for Pelton turbines
IEC	TR61366-4	Hydro	Pre-Installation	2010	Hydraulic turbines, storage pumps and pump-turbines - Tendering Documents - Part 4: Guidelines for technical specifications for Kaplan and propeller turbines
IEC	TR61366-7	Hydro	Pre-Installation	2010	Hydraulic turbines, storage pumps and pump-turbines - Tendering Documents - Part 7: Guidelines for technical specifications for storage pumps

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IEC	TR61850-7-510	Hydro	Pre-Installation	2012	Edition 1.0 Communication networks and systems for power utility automation - Part 7-510: Basic communication structure - Hydroelectric power plants - Modelling concepts and guidelines, Stability Date: 2017
IEC	185	Hydro	Product	1987	Current transformers. IEC 186: 1987, Voltage transformers.
IEC	186	Hydro	Product	1987	Voltage Transformers
IEC	34-5	Hydro	Product	1991	Rotating electrical machines - Part 5: Classification of degrees of protection provided by enclosures of rotating electrical machines (IP Code).
IEC	60034-1	Hydro	Product	1983	Turbines and generator (rotating electrical machines)
IEC	61366-1	Hydro	Product	1998	Turbines and generator (rotating electrical machines)
IEC	TR61364	Hydro	Product	1999	Edition 1.0 Nomenclature for hydroelectric powerplant machinery, Stability Date: 2010
IEC	TR61364	Hydro	Product	1999	Edition 1.0 Corrigendum 1 - Nomenclature for hydroelectric powerplant machinery, Stability Date: 2010
IEC	41	Hydro	Testing, Sampling and Analysis	1991	Field acceptance tests to determine the hydraulic performance of hydraulic turbines, storage pumps and pump-turbines.
IEC	193	Hydro	Testing, Sampling and Analysis	1965	International code for model acceptance tests of hydraulic turbines. Amendment No. 1 (1977).
IEC	308	Hydro	Testing, Sampling and Analysis	1970	International code for testing of speed governing systems for hydraulic turbines.
IEC	60041	Hydro	Testing, Sampling and Analysis	2011	Field acceptance tests to determine the hydraulic performance of hydraulic turbines, storage pumps and pump-turbines
IEC	60193	Hydro	Testing, Sampling and Analysis	1999	Hydraulic turbines, storage pumps and pump-turbines - Model acceptance tests
IEC	60308	Hydro	Testing, Sampling and Analysis	1970	Hydraulic turbines - Testing of control systems

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
IEC	60994	Hydro	Testing, Sampling and Analysis	2010	Corrigendum 1 - Guide for field measurement of vibrations and pulsations in hydraulic machines (turbines, storage pumps and pump-turbines)
IEC	62006	Hydro	Testing, Sampling and Analysis	2010	Edition 1.0 Hydraulic machines - Acceptance tests of small hydroelectric installations, Stability Date: 2015
IEC	193A	Hydro	Testing, Sampling and Analysis	1972	First supplement to IEC 193 (1965).
IEC	34-2A	Hydro	Testing, Sampling and Analysis	1974	First supplement: Measurement of losses by the calorimetric method.
INR (IS)	2705-1	Hydro	Installation	1992	Current transformers: Part 1 General requirements
INR (IS)	7326-3	Hydro	Operation	1976	Penstock and turbine inlet butterfly valves for hydropower stations and systems: Part 3 Recommendations for operations and maintenance
INR (IS)	12837	Hydro	Pre-Installation	1989	Hydraulic Turbines for Medium and Large Power Houses - Guidelines for Selection
INR (IS)	12800-1	Hydro	Pre-Installation	1983	Guidelines for selection of turbines, preliminary dimensioning and layout of surface hydro-electric power houses Part 1 Medium and large power houses
INR (IS)	12800-2	Hydro	Pre-Installation	1989	Guidelines for selection of turbines, preliminary dimensioning and layout of surface hydro-electric power house Part 2 Pumped storage power houses
INR (IS)	12800-3	Hydro	Pre-Installation	1991	Guidelines for Selection of Hydraulic Turbine, Preliminary Dimensioning and Layout of Surface Hydroelectric Power Houses - Part 3 : Small, Mini and Micro Hydroelectric Power Houses
INR (IS)	7326-2	Hydro	Pre-Installation	1992	Penstock and turbine inlet butterfly valves for hydropower stations and systems: Part 2 Guidelines for design and selection of control equipment
INR (IS)	2705-3	Hydro	Product	1992	Current transformers: Part 3 Protective current transformers
INR (IS)	2705-4	Hydro	Product	1992	Current transformers: Part 4 Protective current transformers for special purpose applications
INR (IS)	7326-1	Hydro	Product	1992	Penstock and turbine inlet butterfly valves for hydropower stations and systems: Part 1 Criteria for structural and hydraulic design

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INR (IS)	14197	Hydro	Testing, Sampling and Analysis	1994	Code for model acceptance tests of hydraulic turbines
INR (IS)	2705-2	Hydro	Testing, Sampling and Analysis	1992	Current transformers: Part 2 Measuring current transformers
MCS	MCS018	Hydro	Manufacturing		Product Certification Scheme Requirements: 'As New Hydro Product Standard'
MCS	MCS016	Hydro	Product		Product Certification Scheme Requirements: Micro Hydro Turbines Issue 1.0
IEC	114-79	Marine	Performance		Electrical Power Quality Requirements for Wave, Tidal and other Water Current Energy Systems
IEC	TS62600-100	Marine	Performance		Marine energy - Wave, tidal and other water current converters - Part 100: Power performance assessment of electricity producing wave energy converters
IEC	TS62600-102	Marine	Performance	2014	Marine energy - Wave, tidal and other water current converters - Part 102: Wave energy converter power performance assessment at a second location using measured assessment data
IEC	TS62600-200	Marine	Performance	2013	Marine energy - Wave, tidal and other water current converters - Part 200: Power performance assessment of electricity producing tidal energy converters
IEC	114-78	Marine	Pre-Installation		Guideline for design assessment of Ocean Thermal Energy Conversion (OTEC) system
IEC	TS62600-10	Marine	Pre-Installation	2013	Marine energy - Wave, tidal and other water current converters - Part 10: The assessment of mooring system for marine energy converters
IEC	TS62600-101	Marine	Pre-Installation	2012	Marine energy - Wave, tidal and other water current converters - Part 101: Wave energy resource assessment and characterization
IEC	TS62600-2	Marine	Pre-Installation	2013	Marine energy - Wave, tidal and other water current converters - Part 2: Design requirements for marine energy systems
IEC	TS62600-201	Marine	Pre-Installation	2012	Marine energy - Wave, tidal and other water current converters - Part 201: Tidal energy resource assessment and characterization
IEC	TS62600-1	Marine	Product	2011	Marine energy - Wave, tidal and other water current converters - Part 1: Terminology

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IEC	TS62600-30	Marine	Product	2015	Marine Energy - Wave, tidal and other water current converters - Part 30: Electrical power quality requirements for wave, tidal and other water current energy converters
IEC	PNW/TS114-92	Marine	Product	2014	Guidelines for the early stage development of wave energy converters: Best practices & recommended procedures for the testing of pre-prototype scale devices
BSI	PAS67	micro CHP	Testing, Sampling and Analysis	2008	Laboratory tests to determine the heating and electrical performance of heat-led micro-cogeneration packages primarily intended for heating dwellings
MCS	MIS3007	micro CHP	Installation		REQUIREMENTS FOR CONTRACTORS UNDERTAKING THE DESIGN, SUPPLY, INSTALLATION, SET TO WORK, COMMISSIONING AND HANDOVER OF A HEATING SYSTEM CONTAINING A MICRO-COGENERATION PACKAGE Issue 2.1a
MCS	MIS3007-2	micro CHP	Installation		MIS307-2 REQUIREMENTS FOR CONTRACTORS UNDERTAKING THE DESIGN, SUPPLY, INSTALLATION, SET TO WORK, COMMISSIONING AND HANDOVER OF A DOMESTIC HOT WATER SYSTEM CONTAINING AN ELECTRICITY LED MICRO-COGENERATION PACKAGE Issue 1.1a
MCS	MCS014	micro CHP	Product		Product Certification Scheme Requirements: Heat-led micro-cogeneration packages in dwellings Issue 1.1
MCS	MCS015	micro CHP	Product		Product Certification Scheme Requirements: Electricity-led micro-cogeneration packages in dwellings Issue 1.0
ASTM	E1021-06	PV	Testing, Sampling and Analysis		Standard Test Method for Spectral Responsivity Measurements of Photovoltaic Devices
ASTM	E1036-08	PV	Testing, Sampling and Analysis		Standard Test Methods for Electrical Performance of Nonconcentrator Terrestrial Photovoltaic Modules and Arrays Using Reference Cells
ASTM	E1036M-96e2	PV	Testing, Sampling and Analysis		Standard Test Method for Electrical Performance of Concentrator Terrestrial Photovoltaic Modules and Arrays Using Reference Cells (Withdrawn 2005)
ASTM	E1038-10	PV	Testing, Sampling and Analysis		Standard Test Method for Determining Resistance of Photovoltaic Modules to Hail by Impact with Propelled Ice Balls

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ASTM	E1039-99	PV	Testing, Sampling and Analysis	2008	Now Withdrawn
ASTM	E1040-10	PV	Testing, Sampling and Analysis		Standard Specification for Physical Characteristics of Nonconcentrator Terrestrial Photovoltaic Reference Cells
ASTM	E1125-10	PV	Testing, Sampling and Analysis		Standard Test Method for Calibration of Primary Non-Concentrator Terrestrial Photovoltaic Reference Cells Using a Tabular Parameter
ASTM	E1143-05	PV	Testing, Sampling and Analysis		Standard Test Method for Determining the Linearity of a Photovoltaic Device Parameter with Resect To a Test Parameter
ASTM	E1171-09	PV	Testing, Sampling and Analysis		Standard Test Method for Photovoltaic Modules in Cyclic Temperature and Humidity Environments
ASTM	E1328-05	PV	Testing, Sampling and Analysis		Standard Terminology Relating to Photovoltaic Solar Energy Conversion See also WK34101 proposed withdrawal with replacement
ASTM	E1362-10	PV	Testing, Sampling and Analysis		Standard Test Method for Calibration of Non-Concentrator Photovoltaic Secondary Reference Cells
ASTM	E1462-00	PV	Testing, Sampling and Analysis	2006	Standard Test Method for Insulation Integrity and Ground Path Continuity of Photovoltaic Modules See also WK34175 proposed revision
ASTM	E1596-99	PV	Testing, Sampling and Analysis	2008	Now Withfran
ASTM	E1597-10	PV	Testing, Sampling and Analysis		Standard Test Method for Saltwater Pressure Immersion and Temperature Testing of Photovoltaic Modules for Marine Environments
ASTM	E1799-08	PV	Testing, Sampling and Analysis		Standard Practice for Visual Inspections of Photovoltaic Modules
ASTM	E1802-07	PV	Testing, Sampling and Analysis		Standard Test Methods for Wet Insulation Integrity Testing of Photovoltaic Modules
ASTM	E1830-09	PV	Testing, Sampling and Analysis		Standard Test Methods for Determining Mechanical Integrity of Photovoltaic Modules

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ASTM	E2047-10	PV	Testing, Sampling and Analysis		Standard Test Method for Wet Insulation Integrity Testing of Photovoltaic Modules
ASTM	E2236-10	PV	Testing, Sampling and Analysis		Standard Test Methods for Measurement of Electrical Performance and Spectral Response of Nonconcentrator Multijunction Photovoltaic Cells and Modules
ASTM	E2481-08	PV	Testing, Sampling and Analysis		Standard Test Method for Hot Spot Protection Test of Photovoltaic Modules
ASTM	E2527-09	PV	Testing, Sampling and Analysis		Standard Test Method for Electrical Performance of Concentrator Terrestrial Photovoltaic Modules and Systems Under Natural Sunlight
ASTM	E2685-09	PV	Testing, Sampling and Analysis		Standard Specification for Steel Blades Used with the Photovoltaic Module Surface Cut Test
ASTM	E2848-11	PV	Testing, Sampling and Analysis		Standard Test Method for Reporting Photovoltaic Non-Concentrator System Performance
ASTM	E927-10	PV	Testing, Sampling and Analysis		Standard Specification for Solar Simulation for Terrestrial Photovoltaic Testing
ASTM	E927-10	PV	Testing, Sampling and Analysis		Superseded
ASTM	E948-09	PV	Testing, Sampling and Analysis		Standards Test Methods for Electrical Performance of Photovoltaic Cells Using Reference Cells Under Simulated Sunlight
ASTM	E971-11	PV	Testing, Sampling and Analysis		Standard Practice for Calculation of Photometric Transmittance and Reflectance of Materials to Solar Radiation
ASTM	E972-96	PV	Testing, Sampling and Analysis	2007	Standards Test Methods for Solar Photometric Transmittance of Sheet Materials to Solar Radiation
ASTM	E973-10	PV	Testing, Sampling and Analysis		Standard Test Method for Determination of the Spectral Mismatch Parameter Between a Photovoltaic Device and a Photovoltaic Reference Cells
ASTM	E973M-96	PV	Testing, Sampling and Analysis		Standard Test Method for Determination of the Spectral Mismatch Parameter Between a Photovoltaic Device and a Photovoltaic Reference Cells [Metric] (Withdrawn 2005)

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
ASTM	WK21327	PV	Testing, Sampling and Analysis		New Practice for the Attachment of Roof Mounted Photovoltaic Arrays on Steep-Slope Roofs
ASTM	WK22009	PV	Testing, Sampling and Analysis		New Test Method for Reporting Photovoltaic Non-Concentrator System Performance
ASTM	WK22010	PV	Testing, Sampling and Analysis		New Guide for Testing Performances, Weathering and Aging of Photovoltaic Modules
ASTM	WK25362	PV	Testing, Sampling and Analysis		New Practice for Accelerated Life Testing of Photovoltaic Modules
ASTM	WK36144	PV	Testing, Sampling and Analysis		Ne Specification for Nameplate, Datasheet and Sampling Requirements of Photovoltaic Modules
CEN	62124	PV	Installation	2005	Photovoltaic (PV) stand-alone systems. Design verification
CEN	62446	PV	Installation	2009	Grid connected photovoltaic systems. Minimum requirements for system documentation, commissioning tests and inspection
CEN		PV	Installation		Photovoltaics in buildings
CEN	50521	PV	Performance	2008	Connectors for photovoltaic systems. Safety requirements and tests
CEN	50530	PV	Performance	2010	Overall efficiency of grid connected photovoltaic inverters
CEN	61702	PV	Performance	2000	Rating of direct coupled photovoltaic (PV) pumping systems
CEN	61724	PV	Performance	1998	Photovoltaic system performance monitoring. Guidelines for measurement, data exchange and analysis
CEN	61725	PV	Performance	1997	Analytical expression for daily solar profiles
CEN	60904-9	PV	Performance	2007	Photovoltaic devices. Solar simulator performance requirements
CEN	61853-2	PV	Performance	201?	Photovoltaic (PV) module performance testing and energy rating - Part 2: Spectral response, incidence angle and module operating temperature measurements
CEN	62253	PV	Pre-Installation	2011	Photovoltaic pumping systems. Design qualification and performance measurements
CEN	50380	PV	Product	2003	Datasheet and nameplate information for photovoltaic modules

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
CEN	50461	PV	Product	2006	Solar cells. Datasheet information and product data for crystalline silicon solar cells
CEN	50513	PV	Product	2009	Solar wafers. Data sheet and product information for crystalline silicon wafers for solar cell manufacturing
CEN	50524	PV	Product	2009	Data sheet and name plate for photovoltaic inverters
CEN	50530	PV	Product	2010	Overall efficiency of grid connected photovoltaic inverters
CEN	50548	PV	Product	2011	Junction boxes for photovoltaic modules
CEN	61215	PV	Product	2005	Crystalline silicon terrestrial photovoltaic (PV) modules. Design qualification and type approval
CEN	61646	PV	Product	2008	Thin-film terrestrial photovoltaic (PV) modules. Design qualification and type approval
CEN	62093	PV	Product	2005	Balance-of-system components for photovoltaic systems. Design qualification natural environments
CEN	62108	PV	Product	2008	Concentrator photovoltaic (CPV) modules and assemblies. Design qualification and type approval
CEN	62509	PV	Product	2011	Battery charge controllers for photovoltaic systems. Performance and functioning
CEN	62548	PV	Product	2011	Design requirements for photovoltaic (PV) arrays
CEN	60904-2	PV	Product	2007	Photovoltaic devices. Requirements for reference solar devices
CEN	61730-1	PV	Product	2007	Photovoltaic (PV) module safety qualification. Requirements for construction
CEN	62109-1	PV	Product	2010	Safety of power converters for use in photovoltaic power systems. General requirements
CEN	62109-2	PV	Product	2011	Safety of power converters for use in photovoltaic power systems. Particular requirements for inverters
CEN	61730-1	PV	Product	2007	Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction
CEN	60891	PV	Testing, Sampling and Analysis	2010	Photovoltaic devices. Procedures for temperature and irradiance corrections to measured I-V characteristics
CEN	61345	PV	Testing, Sampling and Analysis	1998	UV test for photovoltaic (PV) modules

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
CEN	61683	PV	Testing, Sampling and Analysis	2000	Photovoltaic systems. Power conditioners. Procedure for measuring efficiency
CEN	61701	PV	Testing, Sampling and Analysis	2000	Salt mist corrosion testing of photovoltaic (PV) modules
CEN	61701	PV	Testing, Sampling and Analysis	2011	Salt mist corrosion testing of photovoltaic (PV) modules
CEN	61829	PV	Testing, Sampling and Analysis	1998	Crystalline silicon photovoltaic (PV) array. On-site measurement of I-V characteristics
CEN	62116	PV	Testing, Sampling and Analysis	2011	Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverter
CEN	60904-1	PV	Testing, Sampling and Analysis	2006	Photovoltaic devices. Measurement of photovoltaic current-voltage characteristics
CEN	60904-10	PV	Testing, Sampling and Analysis	2010	Photovoltaic devices. Methods of linearity measurement
CEN	60904-3	PV	Testing, Sampling and Analysis	2008	Photovoltaic devices. Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data
CEN	60904-4	PV	Testing, Sampling and Analysis	2009	Photovoltaic devices. Reference solar devices. Procedures for establishing calibration traceability
CEN	60904-5	PV	Testing, Sampling and Analysis	2011	Photovoltaic devices. Determination of the equivalent cell temperature (ECT) of photovoltaic (PV) devices by the open-circuit voltage method
CEN	60904-7	PV	Testing, Sampling and Analysis	2009	Photovoltaic devices. Computation of the spectral mismatch correction for measurements of photovoltaic devices
CEN	60904-8	PV	Testing, Sampling and Analysis	1998	Photovoltaic devices. Measurement of spectral response of a photovoltaic (PV) device
CEN	61730-2	PV	Testing, Sampling and Analysis	2007	Photovoltaic (PV) module safety qualification. Requirements for testing

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
CEN	61853-1	PV	Testing, Sampling and Analysis	2011	Photovoltaic (PV) module performance testing and energy rating. Irradiance and temperature performance measurements and power rating
CEN	61730-2	PV	Testing, Sampling and Analysis	2007	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing
CLC	61836	PV	Product	2009	Solar photovoltaic energy systems. Terms, definitions and symbols
IEC	82-707	PV	Cross-cutting	2015	Connectors for DC-application in photovoltaic systems - Safety requirements and tests
IEC	62109-1	PV	General	2010	Safety of power converters for use in photovoltaic power systems - Part 1: General requirements
IEC	62109-2	PV	General	2011	Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters
IEC	62446	PV	General	2009	Grid connected photovoltaic systems - Minimum requirements for system documentation, commissioning tests and inspection
IEC	62509	PV	General	2010	Battery charge controllers for photovoltaic systems - Performance and functioning
IEC	62789	PV	General	2013	Specification for concentrator cell description
IEC	62688	PV	Installation	2013	Concentrator photovoltaic (CPV) module and assembly safety qualification
IEC	PVRS6A	PV	Installation		PV GAP, PVRS6A "Charge controllers for photovoltaic stand-alone systems with a nominal voltage below 50V" accepted for use in the IEC PV scheme.
IEC	PVRS7A	PV	Installation		Lighting systems with fluorescent lamps for photovoltaic stand-alone systems with a nominal voltage below 24 V
IEC	PVRS8A	PV	Installation		Inverters for photovoltaic stand-alone systems
IEC	61853-1	PV	Performance	2011	Photovoltaic systems - Power conditioners - Procedure for measuring efficiency
IEC	62670-1	PV	Performance		Ed. 1.0 Concentrator photovoltaic (CPV) module and assembly performance testing and energy rating - Part 1: Performance measurements and power rating - Irradiance and temperature
IEC	62670-2	PV	Performance		Ed. 1.0 Concentrator photovoltaic (CPV) module and assembly performance testing and energy rating - Part 2: Energy rating by measurement

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
IEC	62790	PV	Performance	2014	Junction boxes for photovoltaic modules - Safety requirements and tests
IEC	82-675	PV	Performance		Ed. 1.0 Connectors for DC-application in photovoltaic systems - Safety requirements and tests
IEC	62093	PV	Pre-Installation	2005	Balance-of-system components for photovoltaic systems - Design qualification natural environments
IEC	62108	PV	Pre-Installation	2007	Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval
IEC	62124	PV	Pre-Installation	2004	Photovoltaic (PV) stand alone systems - Design verification
IEC	62253	PV	Pre-Installation	2011	Photovoltaic pumping systems - Design qualification and performance measurements
IEC	62548	PV	Pre-Installation	2012	Design requirements for photovoltaic (PV) arrays
IEC	62738	PV	Pre-Installation		Ed. 1.0 Design guidelines and recommendations for photovoltaic power plants
IEC	62748	PV	Pre-Installation		Ed. 1.0 PV systems on buildings
IEC	61215	PV	Product	2014	Ed. 3.0 Crystalline silicon terrestrial photovoltaic (PV) modules - Design qualification and type approval
IEC	61646	PV	Product	2008	Ed.2.0: Thin-film terrestrial photovoltaic modules - Design qualification and type approval.
IEC	62727	PV	Product		Ed. 1.0 Specification for solar trackers used for photovoltaic systems
IEC	61730-2	PV	Product		Ed. 2.0 Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing
IEC	62109-3	PV	Product		Ed. 1.0 Safety of power converters for use in photovoltaic power systems - Part 3: Controllers
IEC	62109-4	PV	Product		Ed. 1.0 Safety of power converters for use in photovoltaic power systems - Part 4: Particular requirements for combiner box
IEC	62759-1	PV	Product		Ed. 1.0 Transportation testing of photovoltaic (PV) modules - Part 1: Transportation and shipping of PV module stacks
IEC	82-652	PV	Product		Ed. 1.0 Specification for concentrator cell
IEC	60891	PV	Testing, Sampling and Analysis	2009	Photovoltaic devices - Procedures for temperature and irradiance corrections to measured I-V characteristics

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
IEC	61345	PV	Testing, Sampling and Analysis	1998	UV test for photovoltaic (PV) modules
IEC	61683	PV	Testing, Sampling and Analysis	2012	Photovoltaic systems - Power conditioners - Procedure for measuring efficiency
IEC	61701	PV	Testing, Sampling and Analysis	2011	Salt mist corrosion testing of photovoltaic (PV) modules
IEC	61702	PV	Testing, Sampling and Analysis	1995	Rating of direct coupled photovoltaic (PV) pumping systems
IEC	61724	PV	Testing, Sampling and Analysis	1998	Photovoltaic system performance monitoring - Guidelines for measurement, data exchange and analysis
IEC	61725	PV	Testing, Sampling and Analysis	1997	Analytical expression for daily solar profiles
IEC	61727	PV	Testing, Sampling and Analysis	2004	Photovoltaic (PV) systems - Characteristics of the utility interface
IEC	61730-1	PV	Testing, Sampling and Analysis	2011	Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction
IEC	61829	PV	Testing, Sampling and Analysis	1995	Crystalline silicon photovoltaic (PV) array - On-site measurement of I-V characteristics
IEC	61836	PV	Testing, Sampling and Analysis	2011	Solar photovoltaic energy systems - Terms, definitions and symbols
IEC	62116	PV	Testing, Sampling and Analysis	2008	Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters
IEC	62716	PV	testing, Sampling and Analysis	2013	Ammonia corrosion testing of photovoltaic (PV) modules
IEC	62782	PV	testing, Sampling and Analysis	2015	Dynamic mechanical load testing for photovoltaic (PV) modules

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
IEC	62787	PV	testing, Sampling and Analysis	2014	Concentrator photovoltaic (CPV) solar cells and cell-on-carrier (COC) assemblies - Reliability qualification
IEC	62788-1-2	PV	Testing, Sampling and Analysis	2014	Measurement procedures for materials used in photovoltaic modules - Part 1-2: Encapsulants - Measurement of volume resistivity of photovoltaic encapsulation and backsheet materials
IEC	62788-1-3	PV	Testing, Sampling and Analysis	2014	Measurement procedures for materials used in photovoltaic modules - Part 1-3: Encapsulants - Measurement of dielectric strength
IEC	62805-1	PV	Testing, Sampling and Analysis	2014	Test method for total haze and spectral distribution of haze of transparent conductive coated glass for solar cells
IEC	62775	PV	Testing, Sampling and Analysis		Ed. 1.0 Cross-linking degree test method for Ethylene-Vinyl Acetate applied in photovoltaic modules - Differential Scanning Calorimetry (DSC)
IEC	60904-1	PV	Testing, Sampling and Analysis	2006	Photovoltaic devices - Part 1: Measurement of photovoltaic current-voltage characteristics
IEC	60904-2	PV	Testing, Sampling and Analysis	2007	Photovoltaic devices - Part 2: Requirements for reference solar devices
IEC	60904-3	PV	Testing, Sampling and Analysis	2008	Photovoltaic devices - Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data
IEC	60904-4	PV	Testing, Sampling and Analysis	2009	Photovoltaic devices - Part 4: Reference solar devices - Procedures for establishing calibration traceability
IEC	60904-5	PV	Testing, Sampling and Analysis	2011	Photovoltaic devices - Part 5: Determination of the equivalent cell temperature (ECT) of photovoltaic (PV) devices by the open-circuit voltage method
IEC	60904-7	PV	Testing, Sampling and Analysis	2008	Photovoltaic devices - Part 7: Computation of the spectral mismatch correction for measurements of photovoltaic devices
IEC	60904-8	PV	Testing, Sampling and Analysis	2013	Ed. 3.0 Photovoltaic devices - Part 8: Measurement of spectral response of a photovoltaic (PV) device

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
IEC	60904-9	PV	Testing, Sampling and Analysis	2007	Photovoltaic devices - Part 9: Solar simulator performance requirements
IEC	60904-10	PV	Testing, Sampling and Analysis	2009	Photovoltaic devices - Part 10: Methods of linearity measurement
IEC	60904-11	PV	Testing, Sampling and Analysis	2014	Photovoltaic devices - Part 11: Measurement of initial light-induced degradation of crystalline silicon solar cells and photovoltaic modules
IEC	61853-2	PV	Testing, Sampling and Analysis		Ed. 1.0 Photovoltaic (PV) module performance testing and energy rating - Part 2: Spectral response, incidence angle and module operating temperature measurements
IEC	82-654	PV	Testing, Sampling and Analysis		Ed. 1.0 Photovoltaic devices – Part 11: Measurement of initial light-induced degradation of crystalline silicon solar cells and photovoltaic modules
IEC	62788-1-4	PV	Testing, Sampling and Analysis	2014	Measurement procedures for materials used in Photovoltaic Modules - Part 1-4: Encapsulants - Measurement of optical transmittance and calculation of the solar-weighted photon transmittance, yellowness index, and UV cut-off frequency
IEC	62788-1-5	PV	Testing, Sampling and Analysis	2015	Measurement procedures for materials used in photovoltaic modules - Part 1-5: Encapsulants - Measurement of change in linear dimensions of sheet encapsulation material under thermal conditions
IEC	82-676	PV	Testing, Sampling and Analysis		Ed. 1.0 Dynamic mechanical load testing for photovoltaic (PV) modules
IEC	62804	PV	Testing, Sampling and Analysis	2014	Ed. 1.0 System voltage durability test for crystalline silicon modules - Qualification and type approval
MCS	MCS017	PV	Certification		Product Certification Scheme Requirements: Bespoke Building Integrated Photovoltaic Products Issue 1.0
MCS	MIS3002	PV	Installation		REQUIREMENTS FOR CONTRACTORS UNDERTAKING THE SUPPLY, DESIGN, INSTALLATION, SET TO WORK COMMISSIONING AND HANDOVER OF SOLAR PHOTOVOLTAIC (PV) MICROGENERATION SYSTEMS Issue 2.1
MCS	MCS005	PV	Product		Product Certification Scheme Requirements: Solar Photovoltaic Modules Issue 2.3

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
IEC	PAS62111	Rural Elec	Cross-cutting	1999	Edition 1.0 Specifications for the use of renewable energies in rural decentralised electrification, Stability Date: 2009
IEC	62257-1	Rural Elec	Cross-cutting	2003	Edition 1.0 Recommendations for small renewable energy and hybrid systems for rural electrification - Part 1: General introduction to rural electrification, Stability Date: 2012
IEC	62257-2	Rural Elec	Cross-cutting	2003	Edition 1.0 Recommendations for small renewable energy and hybrid systems for rural electrification - Part 2: From requirements to a range of electrification systems, Stability Date: 2012
IEC	62257-3	Rural Elec	Cross-cutting	2004	Recommendations for small renewable energy and hybrid systems for rural electrification. Project development and management
IEC	62257-4	Rural Elec	Cross-cutting	2005	Recommendations for small renewable energy and hybrid systems for rural electrification. System selection and design
IEC	62257-5	Rural Elec	Cross-cutting	2005	Recommendations for small renewable energy and hybrid systems for rural electrification. Protection against electrical hazards
IEC	62257-6	Rural Elec	Cross-cutting	2005	Recommendations for small renewable energy and hybrid systems for rural electrification. Acceptance, operation, maintenance and replacement
IEC	62257-9-1	Rural Elec	Installation	2008	Recommendations for small renewable energy and hybrid systems for rural electrification. Micropower systems
IEC	62257-9-2	Rural Elec	Installation	2006	Recommendations for small renewable energy and hybrid systems for rural electrification. Microgrids
IEC	62257-9-3	Rural Elec	Installation	2006	Recommendations for small renewable energy and hybrid systems for rural electrification. Integrated system. User interface DD IEC/TS 62257-9-4:2006
IEC	62257-9-4	Rural Elec	Installation	2006	Recommendations for small renewable energy and hybrid systems for rural electrification. Integrated system. User installation
IEC	62257-7	Rural Elec	Pre-Installation	2008	Recommendations for small renewable energy and hybrid systems for rural hybrid systems for rural electrification. Generators
IEC	62257-7-3	Rural Elec	Pre-Installation	2008	Recommendations for small renewable energy and hybrid systems for rural electrification. Generator set. Selection of generator sets for rural electrification systems

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
IEC	62257-8-1	Rural Elec	Pre-Installation	2007	Recommendations for small renewable energy and hybrid systems for rural electrification. Selection of batteries and battery management systems for stand-alone electrification systems. Specific case of automotive flooded lead-acid batteries available in developing countries
IEC	62257-12-1	Rural Elec	Product	2007	Recommendations for small renewable energy and hybrid systems for rural electrification. Selection of self-ballasted lamps (CFL) for rural electrification systems and recommendations for household lighting equipment
IEC	62257-7-1	Rural Elec	Product	2010	Edition 2.0 Recommendations for small renewable energy and hybrid systems for rural electrification - Part 7-1: Generators - Photovoltaic generators, Stability Date: 2014
IEC	62257-9-5	Rural Elec	Product	2007	Recommendations for small renewable energy and hybrid systems for rural electrification. Integrated system. Selection of portable PV lanterns for rural electrification projects
IEC	62257-9-6	Rural Elec	Product	2008	Recommendations for small renewable energy and hybrid systems for rural electrification. Integrated system. Selection of photovoltaic individual electrification systems (PV-IES)
ASTM	E772-11	Solar Thermal	Cross-cutting		Standard Terminology of Solar Energy Conversion
ASTM	E1056-85	Solar Thermal	Installation	2007	Standard Practice for Installation Service of Solar Domestic Water Heating Systems for One- and Two-Family Dwellings
ASTM	E683-91	Solar Thermal	Installation	2007	Standard Practice for Installation and Service of Solar Space Heating Systems for One- and Two-Family Dwellings
ASTM	B904-87(2007)	Solar Thermal	Performance	2007	Standard Practice for Generating All-Day Thermal Performance Data for Solar Collectors
ASTM	E782-95	Solar Thermal	Product	2007	Standard Practice for Exposure of Cover Materials for Solar Collectors to Natural Weathering Under Conditions imulating Operational Mode
ASTM	E1084-86	Solar Thermal	Testing, Sampling and Analysis	2009	Standard Test Method for Solar Transmittance (Terrestrial) of Sheet Materials Using Sunlight
ASTM	E1089-86	Solar Thermal	Testing, Sampling and Analysis	2007	Standard Test Method for Water Penetration of Flat Plate Solar Collectors by Uniform Static Air Pressure Difference

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
ASTM	E424-71	Solar Thermal	Testing, Sampling and Analysis	2007	Standard Test Methods for Solar Energy Transmittance and Reflectance (Terrestrial) of Sheet Materials
ASTM	E712-80	Solar Thermal	Testing, Sampling and Analysis	2009	Standard Practice for Laboratory Screening of Metallic Containment Materials for Use With Liquids in Solar Heating and Cooling Systems
ASTM	E744-07	Solar Thermal	Testing, Sampling and Analysis		Standard Practice for Evaluating Solar Absorptive Materials for Thermal Applications
ASTM	E745-80	Solar Thermal	Testing, Sampling and Analysis	2009	Standard Practice for Simulated Service Testing for Corrosion of Metallic Containment Materials for Use With Heat-Transfer Fluids in Solar Heating and Cooling Systems
ASTM	E781-86	Solar Thermal	Testing, Sampling and Analysis	2009	Standard Practice for Evaluating Absorptive Solar Receiver Materials When Exposed to Conditions Simulating Stagnation in Solar Collectors With Cover Plates
ASTM	E822-92	Solar Thermal	Testing, Sampling and Analysis	2009	Standard Practice for Determining Resistance of Solar Collector Covers to Hail by Impact With Propelled Ice Balls
ASTM	E861-94	Solar Thermal	Testing, Sampling and Analysis	2007	Standard Practice for Evaluating Thermal Insulation Materials for Use in Solar Collectors
ASTM	E881-92	Solar Thermal	Testing, Sampling and Analysis	2009	Standard Practice for Exposure of Solar Collector Cover Materials to Natural Weathering Under Conditions Simulating Stagnation Mode
ASTM	E905-87(2007)	Solar Thermal	Testing, Sampling and Analysis	2007	Standard Test Method for Determining Thermal Performance of Tracking Concentrating Solar Collectors
BSI	5918	Solar Thermal	Installation	1989	Code of practice for solar heating systems for domestic hot water
BSI	6785	Solar Thermal	Installation	1986	Code of practice for solar heating systems for swimming pools
CEN	12977-1	Solar Thermal	Cross-cutting	2010	Thermal solar systems and components - Custom built systems - Part 1: General requirements for solar water heaters and combisystems
CEN	12977-3	Solar Thermal	Performance	2008	Thermal solar systems and components - Custom built systems - Part 3: Performance test methods for solar water heater stores
CEN	12977-4	Solar Thermal	Performance	2010	Thermal solar systems and components - Custom built systems - Part 4: Performance test methods for solar combisystems

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
CEN	12977-5	Solar Thermal	Performance	2010	Thermal solar systems and components - Custom built systems - Part 5: Performance test methods for control equipment
CEN	9488	Solar Thermal	Product	2000	Solar energy. Vocabulary
CEN	12975-1	Solar Thermal	Product	2010	Thermal solar systems and components - Solar collectors - Part 1: General requirements
CEN	12975-1 + A1	Solar Thermal	Product	2010	Thermal solar systems and components - Solar collectors - Part 1: General requirements
CEN	12975-3-1	Solar Thermal	Product		Thermal solar systems and components - Solar collectors - Part 3-1: Qualification of solar absorber surface durability
CEN	12976-1	Solar Thermal	Product	2006	Thermal solar systems and components - Factory made systems - Part 1: General requirements
CEN	12975-2	Solar Thermal	Testing, Sampling and Analysis	2006	Thermal solar systems and components. Solar collectors. Test methods
CEN	12976-2	Solar Thermal	Testing, Sampling and Analysis	2006	Thermal solar systems and components - Factory made systems - Part 2: Test methods
CEN	12977-2	Solar Thermal	Testing, Sampling and Analysis	2010	Thermal solar systems and components - Custom built systems - Part 2: Test methods for solar water heaters and combisystems
ISO	9459-4	Solar Thermal	Performance		Solar heating -- Domestic water heating systems -- Part 4: System performance characterization by means of component tests and computer simulation
ISO	9459-5	Solar Thermal	Performance	2007	Solar heating. Domestic water heating systems. System performance characterization by means of whole-system tests and computer simulation
ISO	9488	Solar Thermal	Product	1999	Solar energy - Vocabulary
ISO	7431	Solar Thermal	Testing, Sampling and Analysis	1991	Method for assessing solar water heaters. Elastomeric materials for absorbers, connecting pipes and fittings
ISO	7440	Solar Thermal	Testing, Sampling and Analysis	1991	Method for calibrating field pyrhemeters by comparison to a reference pyrhemeter
ISO	7621	Solar Thermal	Testing, Sampling and Analysis	1993	Method for calibrating field pyranometers by comparison to a reference pyranometer

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
ISO	9806	Solar Thermal	Testing, Sampling and Analysis		Solar energy -- Solar thermal collectors -- Test methods
ISO	9806	Solar Thermal	Testing, Sampling and Analysis		Solar Energy - Solar thermal collectors - Test methods
MCS	MIS3001	Solar Thermal	Cross-cutting		REQUIREMENTS FOR CONTRACTORS UNDERTAKING THE SUPPLY, DESIGN, INSTALLATION, SET TO WORK COMMISSIONING AND HANDOVER OF SOLAR HEATING MICROGENERATION SYSTEMS Issue 2.1a
MCS	MCS004	Solar Thermal	Product		Product Certification Scheme Requirements: Solar Collectors Issue 2.3
UK DECC	CE131	Solar Thermal	Cross-cutting		CE131 Solar Thermal Guide
BSI	BS8303-1	Solid Biofuels	Installation		Installation of domestic heating and cooking appliances burning solid mineral fuels - Part 1: Specification for the design of installations
BSI	BS8303-2	Solid Biofuels	Installation		Installation of domestic heating and cooking appliances burning solid mineral fuels - Part 2: Specification for installing and commissioning on site
BSI	BS8303-3	Solid Biofuels	Installation		Installation of domestic heating and cooking appliances burning solid mineral fuels - Part 3: Recommendations for design and on site installation
CEN	EN12809	Solid Biofuels	Cross-cutting	2007	Residential indeendent boilers fired by solid fuel - Nominal heat output up to 50kW - Requirements and testing methods
CEN	EN12815	Solid Biofuels	Cross-cutting	2007	Residential cookers fired by solid fuel - Requirements and test methods
CEN	EN14785	Solid Biofuels	Cross-cutting	2006	Residential space heating appliances fired by wood pellets - Requirements and test methods
CEN	EN15250	Solid Biofuels	Cross-cutting	2007	Slow heat release appliances fired by solid fuel - Requirements and test methods
CEN	EN303-5	Solid Biofuels	Cross-cutting	1999	Heating boilers - Part 5: Heating boilers for solid fuels, hand and automatically fired, nominal heat output of up to 300 kW - Terminology, requirements, testing and marking
CEN	14588	Solid Biofuels	Fuel	2010	Solid biofuels. Terminology, definitions and descriptions
CEN	15569	Solid Biofuels	fuel	2006	Solid biofuels. A guide for a quality assurance system
CEN	14961-1	Solid Biofuels	fuel	2010	Solid biofuels. Fuel specifications and classes. General requirements

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
CEN	14961-2	Solid Biofuels	fuel	2011	Solid biofuels. Fuel specifications and classes. Wood pellets for non-industrial use
CEN	14961-3	Solid Biofuels	fuel	2011	Solid biofuels. Fuel specifications and classes. Wood briquettes for non-industrial use
CEN	14961-4	Solid Biofuels	fuel	2011	Solid biofuels. Fuel specifications and classes. Wood chips for non-industrial use
CEN	14961-5	Solid Biofuels	fuel	2011	Solid biofuels. Fuel specifications and classes. Firewood for non-industrial use
CEN	14961-6	Solid Biofuels	fuel	2012	Solid biofuels - Fuel specifications and classes - Part 6: Non-woody pellets for non-industrial use
CEN	15234-1	Solid Biofuels	fuel	2011	Solid biofuels. Fuel quality assurance. General requirements
CEN	15234-2	Solid Biofuels	fuel	2012	Solid biofuels - Fuel quality assurance - Part 2: Wood pellets for non-industrial use
CEN	15234-4	Solid Biofuels	fuel	2012	Solid biofuels - Fuel quality assurance - Part 4: Wood chips for non-industrial use
CEN	15234-5	Solid Biofuels	fuel	2012	Solid biofuels - Fuel quality assurance - Part 5: Firewood for non-industrial use
CEN	15234-6	Solid Biofuels	fuel	2012	Solid biofuels - Fuel quality assurance - Part 6: Non-woody pellets for non-industrial use
CEN	14775	Solid Biofuels	Testing, Sampling and Analysis	2009	Solid biofuels. Determination of ash content
CEN	14778	Solid Biofuels	Testing, Sampling and Analysis	2011	Solid biofuels. Sampling
CEN	14780	Solid Biofuels	Testing, Sampling and Analysis	2011	Solid biofuels. Sample preparation
CEN	14918	Solid Biofuels	Testing, Sampling and Analysis	2009	Solid biofuels. Determination of calorific value
CEN	15103	Solid Biofuels	Testing, Sampling and Analysis	2009	Solid biofuels. Determination of bulk density
CEN	15104	Solid Biofuels	Testing, Sampling and Analysis	2011	Solid biofuels. Determination of total content of carbon, hydrogen and nitrogen. Instrumental methods
CEN	15105	Solid Biofuels	Testing, Sampling and Analysis	2011	Solid biofuels. Determination of the water soluble chloride, sodium and potassium content

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
CEN	15148	Solid Biofuels	Testing, Sampling and Analysis	2009	Solid biofuels. Determination of the content of volatile matter
CEN	15149	Solid Biofuels	Testing, Sampling and Analysis	2010	Solid biofuels. Determination of particle size distribution. Oscillating screen method using sieve apertures of 1 mm and above
CEN	15150	Solid Biofuels	Testing, Sampling and Analysis	2011	Solid biofuels. Determination of particle density
CEN	15210	Solid Biofuels	Testing, Sampling and Analysis	2009	Solid biofuels - Determination of ash content
CEN	15289	Solid Biofuels	Testing, Sampling and Analysis	2011	Solid biofuels. Determination of total content of sulfur and chlorine
CEN	15290	Solid Biofuels	Testing, Sampling and Analysis	2011	Solid biofuels. Determination of major elements. Al, Ca, Fe, Mg, P, K, Si, Na and Ti
CEN	15296	Solid Biofuels	Testing, Sampling and Analysis	2011	Solid biofuels. Conversion of analytical results from one basis to another
CEN	15297	Solid Biofuels	Testing, Sampling and Analysis	2011	Solid biofuels. Determination of minor elements. As, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, V and Zn
CEN	15591	Solid Biofuels	Testing, Sampling and Analysis	2007	Solid recovered fuels. Determination of the biomass content based on the 14C method
CEN	16126	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of particle size distribution of disintegrated pellets
CEN	16127	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of length and diameter of pellets
CEN	16559	Solid Biofuels	Testing, Sampling and Analysis	2013	Solid biofuels -- Terminology, definitions and descriptions
CEN	14774-1	Solid Biofuels	Testing, Sampling and Analysis	2009	Solid biofuels. Determination of moisture content. Oven dry method. Total moisture. Reference method

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
CEN	14774-2	Solid Biofuels	Testing, Sampling and Analysis	2009	Solid biofuels. Determination of moisture content. Oven dry method. Total moisture. Simplified method
CEN	14774-3	Solid Biofuels	Testing, Sampling and Analysis	2009	Solid biofuels. Determination of moisture content. Oven dry method. Moisture in general analysis sample
CEN	15149-1	Solid Biofuels	Testing, Sampling and Analysis	2010	Solid biofuels - Determination of particle size distribution - Part 1: Oscillating screen method using sieve apertures of 1 mm and above
CEN	15149-2	Solid Biofuels	Testing, Sampling and Analysis	2010	Solid biofuels - Determination of particle size distribution - Part 2: Vibrating screen method using sieve apertures of 3,15 mm and below
CEN	15149-3	Solid Biofuels	Testing, Sampling and Analysis	2006	Solid biofuels - Determination of particle size distribution - Part 3: Rotary screen method
CEN	15210-1	Solid Biofuels	Testing, Sampling and Analysis	2009	Solid biofuels. Determination of mechanical durability of pellets and briquettes. Pellets
CEN	15210-2	Solid Biofuels	Testing, Sampling and Analysis	2010	Solid biofuels. Determination of mechanical durability of pellets and briquettes. Briquettes
CEN	15370-1	Solid Biofuels	Testing, Sampling and Analysis	2006	Solid biofuels. Method for the determination of ash melting behaviour. Characteristic temperatures method
ISO	WD	Solid Biofuels	Fuel		Solid biofuels. Terminology, definitions and descriptions
ISO	WD	Solid Biofuels	fuel		Solid biofuels. Fuel specifications and classes. General requirements
ISO	WD	Solid Biofuels	fuel		Solid biofuels. Fuel specifications and classes. Wood pellets for non-industrial use
ISO	WD	Solid Biofuels	fuel		Solid biofuels. Fuel specifications and classes. Wood briquettes for non-industrial use
ISO	WD	Solid Biofuels	fuel		Solid biofuels. Fuel specifications and classes. Wood chips for non-industrial use
ISO	WD	Solid Biofuels	fuel		Solid biofuels. Fuel specifications and classes. Firewood for non-industrial use
ISO	WD	Solid Biofuels	fuel		Solid biofuels. Fuel quality assurance. General requirements

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
ISO	WD	Solid Biofuels	fuel		Solid biofuels. A guide for a quality assurance system
ISO	WD	Solid Biofuels	fuel		Solid biofuels - Fuel specifications and classes - Part 2: Wood pellets for non-industrial use
ISO	WD	Solid Biofuels	fuel		Solid biofuels - Fuel specifications and classes - Part 3: Wood briquettes for non-industrial use
ISO	WD	Solid Biofuels	fuel		Solid biofuels - Fuel specifications and classes - Part 4: Wood chips for non-industrial use
ISO	WD	Solid Biofuels	fuel		Solid biofuels - Fuel specifications and classes - Part 5: Firewood for non-industrial use
ISO	WD	Solid Biofuels	fuel		Solid biofuels - Fuel specifications and classes - Part 6: Non-woody pellets for non-industrial use
ISO	WD	Solid Biofuels	fuel		Solid biofuels - Fuel quality assurance - Part 1: General requirements
ISO	WD	Solid Biofuels	fuel		Solid biofuels - Terminology, definitions and descriptions
ISO	NWIP	Solid Biofuels	General		Solid Biofuels - Fuel Quality Assurance - Conformity Assessment
ISO	14661	Solid Biofuels	General	2000	Thermal turbines for industrial application (steam turbines, gas expansion turbines) - General requirements
ISO	14661 + Amd 1	Solid Biofuels	General	2002	Data sheets for thermal tubines for indrustrial applications
ISO	DIS17225-1	Solid Biofuels	Product	2013	Solid biofuels — Fuel specifications and classes — Part 1: General requirements
ISO	DIS17225-2	Solid Biofuels	Product	2013	Solid biofuels — Fuel specifications and classes — Part 2: Graded wood pellets
ISO	DIS17225-3	Solid Biofuels	Product	2013	Solid biofuels — Fuel specifications and classes — Part 3: Graded wood briquettes
ISO	DIS17225-4	Solid Biofuels	Product	2013	Solid biofuels — Fuel specifications and classes — Part 4: Graded wood chips
ISO	DIS17225-5	Solid Biofuels	Product	2013	Solid biofuels — Fuel specifications and classes — Part 5: Graded firewood
ISO	DIS17225-6	Solid Biofuels	Product	2013	Solid biofuels — Fuel specifications and classes — Part 6: Graded non-woody pellets
ISO	DIS17225-7	Solid Biofuels	Product	2013	Solid biofuels — Fuel specifications and classes — Part 7ttes: Graded non-woody brique
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Determination of fines content – hand sieving

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Particle size classification by image analysis – calibration of instrument (H. Hartmann)
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Determination of hygroscopicity for pellets and briquettes (S. Melin)
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Determination of off-gassing from pellets (S. Melin)
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Determination of angle of repose
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Determination of angle of drain
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Determination of grindability of pellets
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Ash Melting Behaviour
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - CHN, S, ... to reference methods
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Corrosion
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Mercury
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Quick Screening
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Safety Issues
ISO	NWIP	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - Torrefaction

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of moisture content. Oven dry method. Total moisture. Reference method
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of moisture content. Oven dry method. Total moisture. Simplified method
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of moisture content. Oven dry method. Moisture in general analysis sample
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of ash content
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Sampling
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Sample preparation
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of calorific value
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of bulk density
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of total content of carbon, hydrogen and nitrogen. Instrumental methods
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of the water soluble chloride, sodium and potassium content
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of the content of volatile matter
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of particle size distribution. Oscillating screen method using sieve apertures of 1 mm and above
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of particle size distribution. Vibrating screen method using sieve apertures of 3,15 mm and below

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of particle density
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of mechanical durability of pellets and briquettes. Pellets
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of mechanical durability of pellets and briquettes. Briquettes
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of total content of sulfur and chlorine
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of major elements. Al, Ca, Fe, Mg, P, K, Si, Na and Ti
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Conversion of analytical results from one basis to another
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Determination of minor elements. As, Cd, Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, V and Zn
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Methods for the determination of particle size distribution. Rotary screen method
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels. Method for the determination of ash melting behaviour. Characteristic temperatures method
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid recovered fuels. Determination of the biomass content based on the 14C method
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels -- Terminology, definitions and descriptions
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Method for the determination of ash melting behaviour - Part 1: Characteristic temperatures method
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of calorific value

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of bulk density
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of moisture content - Oven dry method - Part 3: Moisture in general analysis sample
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of the content of volatile matter
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of ash content
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of mechanical durability of pellets and briquettes - Part 1: Pellets
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of particle size distribution of disintegrated pellets
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of length and diameter of pellets
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Sampling
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Sample preparation
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of particle size distribution - Part 1: Oscillating screen method using sieve apertures of 1 mm and above
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of particle size distribution - Part 2: Vibrating screen method using sieve apertures of 3,15 mm and below
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of particle size distribution - Part 3: Rotary screen method
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of particle density

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of mechanical durability of pellets and briquettes - Part 2: Briquettes
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of total content of carbon, hydrogen and nitrogen - Instrumental methods
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of total content of sulfur and chlorine
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Determination of the water soluble chloride, sodium and potassium content
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid biofuels - Conversion of analytical results from one basis to another
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - WD (EN 15149-1) Particle size 3.15 mm and above
ISO	WD	Solid Biofuels	Testing, Sampling and Analysis		Solid Biofuels - WD (EN 15149-2) Particle size 3.15 mm and below
MCS	MIS3004	Solid Biofuels	Installation		REQUIREMENTS FOR CONTRACTORS UNDERTAKING THE SUPPLY, DESIGN, INSTALLATION, SET TO WORK, COMMISSIONING AND HANDOVER OF SOLID BIOFUEL HEATING SYSTEMS Issue 2.1a
MCS	MCS008	Solid Biofuels	Product		Product Certification Scheme Requirements: Biomass Issue 1.3
ÖNORM (austria)	M7133	Solid Biofuels	Fuel		Chipped wood for energetic purposes - Requirements and test specifications
ÖNORM (austria)	M7135	Solid Biofuels	Fuel		Compressed wood and compressed bark in natural state - Pellets and Briquettes - Requirements and test specifications
ÖNORM (austria)	M7136	Solid Biofuels	Fuel		Compressed wood in natural state - Woodpellets Quality assurance in the field of logistics of transport and storage
CEN	14745	Solid Recovered Fuels	fuel	2003	Solid Recovered Fuels - Technical report considers the production of solid recovered fuels from selected, non-hazardous, mono- and mixed-wastes
CEN	15357	Solid Recovered	fuel	2011	Solid recovered fuels. Terminology, definitions and descriptions

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
		Fuels			
CEN	15358	Solid Recovered Fuels	fuel	2011	Solid recovered fuels - Quality management systems - Particular requirements for their application to the production of solid recovered fuels
CEN	15359	Solid Recovered Fuels	fuel	2011	Solid recovered fuels. Specifications and classes
CEN	15508	Solid Recovered Fuels	fuel	2010	Key properties on solid recovered fuels to be used for establishing a classification system
CEN	15400	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Determination of calorific value
CEN	15401	Solid Recovered Fuels	Testing, Sampling and Analysis	2010	Solid recovered fuels. Determination of bulk density
CEN	15402	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Determination of the content of volatile matter
CEN	15403	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Determination of ash content
CEN	15404	Solid Recovered Fuels	Testing, Sampling and Analysis	2010	Solid recovered fuels. Methods for the determination of ash melting behaviour by using characteristic temperatures
CEN	15405	Solid Recovered Fuels	Testing, Sampling and Analysis	2010	Solid recovered fuels. Determination of density of pellets and briquettes
CEN	15406	Solid Recovered Fuels	Testing, Sampling and Analysis	2010	Solid recovered fuels. Determination of bridging properties of bulk material
CEN	15407	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Methods for the determination of carbon (C), hydrogen (H) and nitrogen (N) content
CEN	15408	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Methods for the determination of sulphur (S), chlorine (Cl), fluorine (F) and bromine (Br) content

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
CEN	15410	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Methods for the determination of the content of major elements (Al, Ca, Fe, K, Mg, Na, P, Si, Ti)
CEN	15411	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Methods for the determination of the content of trace elements (As, Ba, Be, Cd, Co, Cr, Cu, Hg, Mo, Mn, Ni, Pb, Sb, Se, Tl, V and Zn)
CEN	15412	Solid Recovered Fuels	Testing, Sampling and Analysis	2010	Solid recovered fuels. Methods for the determination of metallic aluminium
CEN	15413	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Methods for the preparation of the test sample from the laboratory sample
CEN	15440	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Methods for the determination of biomass content
CEN	15442	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Methods for sampling
CEN	15443	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Methods for the preparation of the laboratory sample
CEN	15590	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Determination of the current rate of aerobic microbial activity using the real dynamic respiration index
CEN	15639	Solid Recovered Fuels	Testing, Sampling and Analysis	2010	Solid recovered fuels. Determination of mechanical durability of pellets
CEN	15716	Solid Recovered Fuels	Testing, Sampling and Analysis	2008	Solid recovered fuels. Determination of combustion behaviour
CEN	15414-1	Solid Recovered Fuels	Testing, Sampling and Analysis	2010	Solid recovered fuels. Determination of moisture content using the oven dry method. Determination of total moisture by a reference method
CEN	15414-2	Solid Recovered Fuels	Testing, Sampling and Analysis	2010	Solid recovered fuels. Determination of moisture content using the oven dry method. Determination of total moisture content by a simplified method
CEN	15414-3	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Determination of moisture content using the oven dry method. Moisture in general analysis sample

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
CEN	15415-1	Solid Recovered Fuels	Testing, Sampling and Analysis	2011	Solid recovered fuels. Determination of particle size distribution. Screen method for small dimension particles
CEN	15415-2	Solid Recovered Fuels	Testing, Sampling and Analysis		Solid recovered fuels - Determination of particle size distribution - Part 2: Maximum projected length method (manual) for large dimension particles
CEN	15415-3	Solid Recovered Fuels	Testing, Sampling and Analysis		Solid recovered fuels - Determination of particle size distribution - Part 3: Method by image analysis for large dimension particles
AWEA	AWEA 9.1	Wind	Cross-cutting	2009	AWEA Small Wind Turbine Performance and Safety Standard
CEN	50308	Wind	Testing, Sampling and Analysis	2005	Wind turbines - Protective measures - Requirements for design, operation and maintenance
DNV	DNV-OS-J101	Wind	Cross-cutting	2011	Design of Offshore Wind Turbine Structures: Principles, technical requirements, and guidance for offshore wind turbine structures and Life-cycle approach covering design principles through decommissioning.
DNV	DNV-OS-J102	Wind	Cross-cutting	2009	Design and Manufacture of Wind Turbine Blades, Offshore and Onshore Wind Turbines: Detailed interpretation of the basic requirements for blades including design, manufacturing, and testing.
EST	CE72	Wind	Installation	2011	Installing small wind-powered electricity generating systems
IEC	61400-12-2	Wind	Performance	2013	Wind turbines - Part 12-2: Power performance of electricity producing wind turbines based on nacelle anemometry
IEC	61400-12-3	Wind	Performance		Wind turbines - Part 12 - 3: Wind farm power performance testing
IEC	61400-1-am1	Wind	Pre-Installation	2010	Amendment 1 - Wind turbines - Part 1: Design requirements
IEC	61400-2	Wind	Pre-Installation	2006	Wind turbines - Part 2: Design requirements for small wind turbines
IEC	61400-26-1	Wind	Pre-Installation	2011	Wind turbines - Part 26-1: Time-based availability for wind turbine generating systems
IEC	61400-3	Wind	Pre-Installation	2009	Wind turbines - Part 3: Design requirements for offshore wind turbines
IEC	61400-3-2	Wind	Pre-Installation		Wind turbines - Part 3-2: Design requirements for floating offshore wind turbines
IEC	88-419	Wind	Pre-Installation		Wind Turbines: Tower and foundation design

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
IEC	88-431	Wind	Pre-Installation	2014	Future 61400-27-2: Wind turbines - Part 27-2: Electrical simulation models for wind power generation - Wind power plants
IEC	61400-14	Wind	Product	2005	Wind turbines - Part 14: Declaration of apparent sound power level and tonality values
IEC	61400-24	Wind	Product	2010	Wind turbines - Part 24: Lightning protection
IEC	61400-25-1	Wind	Product	2006	Wind turbines - Part 25-1: Communications for monitoring and control of wind power plants - Overall description of principles and models
IEC	61400-25-2	Wind	Product	2006	Wind turbines - Part 25-2: Communications for monitoring and control of wind power plants - Information models
IEC	61400-25-2	Wind	Product		Review Report on IEC 61400-25-2 Ed.1: Wind turbines - Part 25-2: Communications for monitoring and control of wind power plants - Information models
IEC	61400-25-3	Wind	Product	2006	Wind turbines - Part 25-3: Communications for monitoring and control of wind power plants - Information exchange models
IEC	61400-25-4	Wind	Product	2008	Wind turbines - Part 25-4: Communications for monitoring and control of wind power plants - Mapping to communication profile
IEC	61400-25-6	Wind	Product	2010	Wind turbines - Part 25-6: Communications for monitoring and control of wind power plants - Logical node classes and data classes for condition monitoring
IEC	61400-4	Wind	Product	2012	Wind turbines - Part 4: Design requirements for wind turbine gearboxes
IEC	61400-5	Wind	Product		Wind turbines - Part 5: Rotor blades
IEC	61400-6	Wind	Product	2015	Wind turbines - Tower and foundation design
IEC	61400-11	Wind	Testing, Sampling and Analysis	2012	Wind turbine generator systems - Part 11: Acoustic noise measurement techniques
IEC	61400-12-1	Wind	Testing, Sampling and Analysis	2005	Wind turbines - Part 12-1: Power performance measurements of electricity producing wind turbines
IEC	61400-13	Wind	Testing, Sampling and Analysis	2001	Wind turbine generator systems - Part 13: Measurement of mechanical loads

ORGANISATION	REFERENCE NUMBER	TECHNOLOGY	ASPECTS COVERED	YEAR	NAME
IEC	61400-21	Wind	Testing, Sampling and Analysis	2008	Wind turbines - Part 21: Measurement and assessment of power quality characteristics of grid connected wind turbines
IEC	61400-22	Wind	Testing, Sampling and Analysis	2010	Wind turbines - Part 22: Conformity testing and certification
IEC	61400-23	Wind	Testing, Sampling and Analysis	2001	Wind turbine generator systems - Part 23: Full-scale structural testing of rotor blades
IEC	61400-23	Wind	Testing, Sampling and Analysis		Wind turbines - Part 23: Full-scale structural testing of rotor blades
IEC	61400-25-5	Wind	Testing, Sampling and Analysis	2006	Wind turbines - Part 25-5: Communications for monitoring and control of wind power plants - Conformance testing
IEC	61400-26-2	Wind	Testing, Sampling and Analysis	2013	Wind turbines - Part 26-2: Production based availability for wind turbines
IEC	61400-27-1	Wind	Testing, Sampling and Analysis		Wind turbines - Part 27-1: Electrical simulation models for wind power generation
ISO	81400-4	Wind	Product	2006	Wind turbines - Part 4: Design and specification of gearboxes
ISO	81400-4	Wind	Product	2006	Corrigendum 1 - Wind turbines - Part 4: Design and specification of gearboxes
MCS	MIS3003	Wind	Installation		REQUIREMENTS FOR CONTRACTORS UNDERTAKING THE SUPPLY, DESIGN, INSTALLATION, SET TO WORK COMMISSIONING AND HANDOVER OF MICRO AND SMALL WIND TURBINE SYSTEMS Issue 3.1a
MCS	MCS006	Wind	Product		Product Certification Scheme Requirements: Micro and Small Wind Turbines Issue 1.5