

Annex 7: Harmonised Standards for Products covered by Ecodesign and Energy Labelling Regulations

1 List of Product Groups with European Harmonised Standards

Table 1.1 presents the European harmonised standards for the 12 product groups referenced in **Error! Reference source not found.** of the report. The product groups for which there are no European harmonised standards are covered in section 2 and section 3 of this Annex.

Table 1.1 Product Groups with Harmonised Standards

Measure	Ukrainian Intention		Standard Status	Reference	Scope	Notes	Applicability to Regulation	
	ED	EL					ED	EL
Domestic ovens, hobs ¹ and range hoods ²	☑	☑	Harmonised standard	EN 60350-1:2013	Household electric cooking appliances — Part 1: Ranges, ovens, steam ovens and grills — Methods for measuring performance		☑	☑
			Harmonised standard	EN 61591:1997	Household range hoods and other cooking fume extractors — Methods for measuring performance			
Air conditioners and Comfort Fans ³	☑	☑	Harmonised standard	EN 12102:2013	Air conditioners, liquid chilling packages, heat pumps and dehumidifiers with electrically driven compressors for space heating and cooling — Measurement of airborne noise — Determination of the sound power level	None of these standards covers comfort fans.	☑	☑
				EN 12900:2013	Refrigerant compressors — Rating conditions, tolerances and presentation of manufacturer's performance data			
				EN 14511-2:2013	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling — Part 2: Test conditions			
				EN 14511-3:2013	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling — Part 3: Test methods			
				EN 14825:2013	Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling — Testing and rating at part load conditions and			

¹ Note that hobs are only covered under ecodesign; there is no labelling measure

² EC Communication 11.4.2014 Publication of titles and references of harmonised standards under Union harmonisation legislation: EU regulation N° 66/2014 (Ecodesign) & EU regulation N° 65/2014 (Energy Labelling)

³ EC Communication 10.7.2015 Publication of titles and references of harmonised standards under Union harmonisation legislation: EU regulation N° 206/2012 (Ecodesign) & EU regulation N° 626/2011 (Energy Labelling)

Measure	Ukrainian Intention		Standard Status	Reference	Scope	Notes	Applicability to Regulation	
	ED	EL					ED	EL
					calculation of seasonal performance			
				EN 15218:2013	Air conditioners and liquid chilling packages with evaporatively cooled condenser and with electrically driven compressors for space cooling — Terms, definitions, test conditions, test methods and requirements			
Household Tumble Dryers ⁴	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Harmonised standard	EN 60704-2-6:2012	Household and similar electrical appliances – Test code for the determination of airborne acoustical noise — Part 2-6: Particular requirements for tumble dryers		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
			Harmonised standard	EN 61121:2013	Tumble dryers for household use — Methods for measuring the performance			
Vacuum cleaners ⁵	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Harmonised standard	EN 60312-1:2013	Vacuum cleaners for household use — Part 1: Dry vacuum cleaners — Methods for measuring the performance	This standard needs to be completed to clearly indicate those legal requirements aimed to be covered.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
			Harmonised standard	EN 60335-2-2:2010	Household and similar electrical appliances — Safety — Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances			
			Harmonised	EN 60335-2-69:2012	Household and similar electrical appliances — Safety —			

⁴ EC Communication 16.5.2014 Publication of titles and references of harmonised standards under Union harmonisation legislation: EU regulation N° 932/2012 (Ecodesign) & EU regulation N° 392/2012 (Energy Labelling)

⁵ EC Communication 20.8.2014 Publication of titles and references of harmonised standards under Union harmonisation legislation: EU regulation N° 666/2013 (Ecodesign) & EU regulation N° 665/2013 (Energy Labelling)

Measure	Ukrainian Intention		Standard Status	Reference	Scope	Notes	Applicability to Regulation	
	ED	EL					ED	EL
			standard		Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush for commercial use.	needs to be completed to clearly indicate those legal requirements aimed to be covered.		
Small, medium and large power transformers ⁶	<input checked="" type="checkbox"/>	N/A	Harmonised standard	EN 50588-1:2015	Medium power transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV - Part 1: General requirements		<input checked="" type="checkbox"/>	N/A
			Harmonised standard	EN 50629:2015	Energy performance of large power transformers (Um > 36 kV or Sr ≥ 40 MVA)			
Standby and network standby ⁷	<input checked="" type="checkbox"/>	N/A	Harmonised standard	EN 50564:2011	Electrical and electronic household and office equipment — Measurement of low power consumption.	This standard needs to be completed to clearly indicate those legal requirements aimed to be covered.	<input checked="" type="checkbox"/>	N/A
External power supplies ⁸	<input checked="" type="checkbox"/>	N/A	Harmonised standard	EN 50563:2011 EN 50563:2011/A1:2013	External a.c. - d.c. and a.c. - a.c. power supplies – Determination of no-load power and average efficiency of active modes		<input checked="" type="checkbox"/>	N/A
Electric motors ⁹	<input checked="" type="checkbox"/>	N/A	Harmonised standard	EN 60034-2-1:2007	Rotating electrical machines — Part 2-1: Standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles)	This standard needs to be completed to clearly indicate those legal	<input checked="" type="checkbox"/>	N/A

⁶ EC Communication 11.9.2015 Publication of titles and references of harmonised standards under Union harmonisation legislation: EU regulation N° 548/2014 (Ecodesign)

⁷ EC Communication 20.12.2012 Publication of titles and references of harmonised standards under Union harmonisation legislation: EC regulation N° 1275/2008 (Ecodesign)

⁸ EC Communication 15.4.2015 Publication of titles and references of harmonised standards under Union harmonisation legislation: EC regulation N° 278/2009 (Ecodesign)

⁹ EC Communication 20.12.2012 Publication of titles and references of harmonised standards under Union harmonisation legislation: EC regulation N° 640/2009 (Ecodesign)

Measure	Ukrainian Intention		Standard Status	Reference	Scope	Notes	Applicability to Regulation	
	ED	EL					ED	EL
						requirements aimed to be covered.		
			Harmonised standard	EN 60034-30:2009	Rotating electrical machines — Part 30: Efficiency classes of single-speed, three-phase, cage-induction motors (IE-code)	This standard needs to be completed to clearly indicate those legal requirements aimed to be covered.		
Household refrigerating appliances ¹⁰	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Harmonised standard	EN 62552:2013	Household refrigerating appliances — Characteristics and test methods	Clauses on tolerances and control procedures (Annex E) are not part of the present citation.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Household washing machines ¹¹	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Harmonised standard	EN 60456:2011 EN 60456:2011/AC:2011	Clothes washing machines for household use — Methods for measuring the performance	This standard needs to be completed to clearly indicate those legal requirements aimed to be covered. Clause ZB on tolerances and	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

¹⁰ EC Communication 24.1.2014 Publication of titles and references of harmonised standards under Union harmonisation legislation: EC regulation N° 643/2009 (Ecodesign) & EU regulation N° 1060/2010 (Energy Labelling)

¹¹ EC Communication 5.12.2013 Publication of titles and references of harmonised standards under Union harmonisation legislation: EU regulation N° 1015/2010 (Ecodesign) & EU regulation N° 1061/2010 (Energy Labelling)

Measure	Ukrainian Intention		Standard Status	Reference	Scope	Notes	Applicability to Regulation	
	ED	EL					ED	EL
						control procedures is not part of the present citation.		
			Harmonised standard	EN 60704-2-4:2012	Household and similar electrical appliances — Test code for the determination of airborne acoustical noise — Part 2-4: Particular requirements for washing machines and spin extractors	This standard needs to be completed to clearly indicate those legal requirements aimed to be covered.		
Household dishwashers ¹²	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Harmonised standard	EN 50242:2008	Electric dishwashers for household use - Methods for measuring the performance	Clause Z2 on tolerances and control procedures is not part of the present citation.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Glandless standalone circulators and glandless circulators ¹³	<input checked="" type="checkbox"/>	N/A	Harmonised standard	EN 16297-1:2012	Pumps - Rotodynamic pumps - Glandless circulators - Part 1: General requirements and procedures for testing and calculation of energy efficiency index (EEI)		<input checked="" type="checkbox"/>	N/A
				EN 16297-2:2012	Pumps - Rotodynamic pumps - Glandless circulators - Part 2: Calculation of energy efficiency index (EEI) for standalone circulators			
				EN 16297-3:2012	Pumps - Rotodynamic pumps - Glandless circulators - Part 3: Energy efficiency index (EEI) for circulators integrated in products			

¹² EC Communication 14.6.2013 Publication of titles and references of harmonised standards under Union harmonisation legislation: EU regulation N° 1016/2010 (Ecodesign) & EU regulation N° 1059/2010 (Energy Labelling)

¹³ EC Communication 4.9.2013 Publication of titles and references of harmonised standards under Union harmonisation legislation: EC regulation N° 141/2009 (Ecodesign)

2 List of Product Groups with Transitional Methods of Measurement

Table 2.1 presents the product groups for which there are no European harmonised standards but transitional methods of measurement.

Table 2.1 Product Groups with Transitional Methods of Measurement

Measure	Ukrainian Intention		Standard Status	Reference	Scope	EC Mandate for Harmonised Standards ¹⁴	Notes	Applicability to Regulation	
	ED	EL						ED	EL
Space and combination heaters ¹⁵	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Transitional method of measurement only; no harmonised standards.	EC Communication 2014/C 207/02	The EC Communication on the transitional methods of measurement makes reference to multiple standards. See Table 2.2 below for the specific references.	Mandate Issued 27.04.15 reference M/535 with a requested timetable for delivery of Dec 2015		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Water heaters and hot water storage tanks ¹⁶	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Transitional method of measurement only; no harmonised standards.	EC Communication 2014/C 207/03	The EC Communication on the transitional methods of measurement makes reference to multiple standards. See Table 2.3 below for the specific references.	Mandate Issued 27.04.15 reference M/534 with a requested timetable for delivery of Dec 2015		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Water Pumps ¹⁷	<input checked="" type="checkbox"/>	N/A	Transitional method of	EC Communication 2012/C 402/07	Reference is made to measurement according to ISO EN 9906 Class 2b. Rotodynamic pumps --	Mandate Issued		<input checked="" type="checkbox"/>	N/A

¹⁴ Source: <http://ec.europa.eu/growth/tools-databases/mandates/index.cfm?fuseaction=search.welcome>

¹⁵ EC Communication 3.7.2014 Publication of titles and references of transitional methods of measurement: EU regulation N° 813/2013 (Ecodesign) & EU regulation N° 811/2012 (Energy Labelling)

¹⁶ EC Communication 3.7.2014 Publication of titles and references of transitional methods of measurement: EU regulation N° 814/2013 (Ecodesign) & EU regulation N° 812/2012 (Energy Labelling)

¹⁷ EC Communication 29.12.2012 Publication of titles and references of transitional methods of measurement: EU regulation N° 547/2012 (Ecodesign)

Measure	Ukrainian Intention		Standard Status	Reference	Scope	EC Mandate for Harmonised Standards ¹⁴	Notes	Applicability to Regulation	
	ED	EL						ED	EL
			measurement only; no harmonised standards.		Hydraulic performance acceptance tests -- Grades 1, 2 and 3	21.10.11 reference M/498 with no target deadline for completion.			
Directional Lamps, LED Lamps and related equipment ¹⁸	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Transitional method of measurement only; no harmonised standards.	EC Communication 2014/C 22/02	The EC Communication on the transitional methods of measurement makes reference to multiple standards. See Table 2.4 below for the specific references.	Mandate Issued 4.10.13 reference M/495, Amendment N° 3.	There is also an LED specific / only Mandate issued 12.02.13 reference M519	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Computers and computer servers ¹⁹	<input checked="" type="checkbox"/>	N/A	Transitional method of measurement only; no harmonised standards.	EC Communication 2014/C 110/05	Reference is made to measurement according to EN 62623:2013 Desktop and notebook computers — Measurement of energy consumption. Reference is also made to the Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April, 2012). Reference is made to EN 50563:2011 External a.c. — d.c. and a.c. – a.c. power supplies — Determination of no-load power and average efficiency of active modes. Reference is made to EN 61960:2011 Secondary cells and batteries containing alkaline or other non-acid electrolytes — Secondary lithium cells and	There is no mandate issued, yet. But one is expected shortly.	Published on www.plugload solutions.com	<input checked="" type="checkbox"/>	N/A

¹⁸ EC Communication 24.01.2014 Publication of titles and references of transitional methods of measurement: EU regulation N° 1194/2012 (Ecodesign) & EU regulation N° 874/2012 (Energy Labelling)

¹⁹ EC Communication 11.04.2014 Publication of titles and references of transitional methods of measurement: EU regulation N° 617/2013 (Ecodesign)

Measure	Ukrainian Intention		Standard Status	Reference	Scope	EC Mandate for Harmonised Standards ¹⁴	Notes	Applicability to Regulation	
	ED	EL						ED	EL
					batteries for portable applications				
					Reference is made to the following suite of IEC 62321 standards on the Determination of certain substances in electrotechnical products: <ul style="list-style-type: none"> • 62321-1 • 62321-2 • 62321-3-1 • 62321-4 				
					Reference is made to IEC 62554 ed1.0 — Sample preparation for measurement of mercury level in fluorescent lamps.				
					Reference is made to ECMA-109 2nd edition (December 1987) Declared Noise Emission Values of Computer and Business Equipment and ECMA-74 11th edition (December 2010) Measurement of Airborne Noise emitted by Information Technology and Telecommunications Equipment.				
Televisions ²⁰	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Transitional method of measurement only; no harmonised standards.	EC Communication 2010/C 114/05	Reference is made to IEC 62087, Edition 2.0: <i>Methods of measurement for the power consumption of audio, video and related equipment</i> , and specifically to clause 3 for the On-mode power consumption – terms, definitions and abbreviations.	Mandate Issued 3.12.10 reference M/477 referencing Ecodesign and Energy Labelling. The output		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					Reference is made to IEC 62087, Edition 2.0 and clause 5 for the On-mode power consumption – general methods of measurement.				
					Reference is made to IEC 62087, Edition 2.0 and				

²⁰ EC Communication 4.5.2010 Publication of titles and references of transitional methods of measurement: EC regulation N° 642/2009 (Ecodesign) and EU regulation N° 1062/2010 (Energy Labelling)

Measure	Ukrainian Intention		Standard Status	Reference	Scope	EC Mandate for Harmonised Standards ¹⁴	Notes	Applicability to Regulation	
	ED	EL						ED	EL
					<p>clause 11 for On-mode power consumption – measuring conditions and testing for television sets in on (average) mode.</p> <p>Reference is made to CENELEC EN 62301, Edition 1.0, <i>Household electrical appliances — Measurement of standby power</i>, and specifically clause 3, for Standby/off-mode power consumption – terms and definitions.</p> <p>Reference is made to CENELEC EN 62301, Edition 1.0, and specifically clause 4, for Standby/off-mode power consumption – general conditions for measurements.</p> <p>Reference is made to CENELEC EN 62301, Edition 1.0, and specifically clause 5, for Standby/off-mode power consumption – measurements.</p>	was due at the end of June 2012			
Non-directional household lamps ²¹	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Transitional method of measurement only; no harmonised standards.	EC Communication 2014/C 22/02	The EC Communication on the transitional methods of measurement makes reference to multiple standards. See Table 2.5 below for the specific references.	Mandate Issued 4.10.13 reference M/495, Amendment N° 3.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Tertiary lighting ²²	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Transitional method of measurement only; no	EC Communication 2010/C 92/04	The EC Communication on the transitional methods of measurement makes reference to multiple standards. See Table 2.6 below for the specific references.	Mandate Issued 2.2.11 reference M/485. The		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

²¹ EC Communication 24.1.2014 Publication of titles and references of transitional methods of measurement: EC regulation N° 244/2009 (Ecodesign) (amended by EC regulation N° 859/2009) and EU regulation N° 874/2012 (Energy Labelling)

²² EC Communication 10.4.2010 Publication of titles and references of transitional methods of measurement: EC regulation N° 245/2009 (Ecodesign) (amended by EU regulation N° 347/2010) and EU regulation N° 874/2012 (Energy Labelling)

Measure	Ukrainian Intention		Standard Status	Reference	Scope	EC Mandate for Harmonised Standards ¹⁴	Notes	Applicability to Regulation	
	ED	EL						ED	EL
			harmonised standards.			output was due February 2012			

2.1.1 Supplementary Profile – Transitional Methods of Measurement for Space and Combination Heaters

Table 2.2 lists the standards referenced within the transitional methods of measurement and the EC Mandate (M535) for a European harmonised standard for space and combination heaters.

Table 2.2 The standards referenced in the transitional methods of measurement for Space and combination heaters

Reference	Title	Referenced in the Transitional Method of Measurement (2014)	Included in EC Mandate for European Harmonised Standards (2015)	Product Type ²³				
				Boiler Space Heaters Gaseous Fuel	Boiler Space Heaters Liquid Fuel	Co-generation Space Heaters	Heat Pump Space Heaters	Solar Devices
EN 1:1998	Flued oil stoves with vaporizing burners	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
EN 12102:2013	Air conditioners, liquid chilling packages, heat pumps and dehumidifiers with electrically driven compressors for space heating and cooling - Measurement of airborne noise - Determination of the sound power level	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
EN 12976-2:2006	Thermal solar systems and components – Factory made systems – Part 2: Test methods	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
EN 14511-2:2013	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling – Part 2: Test conditions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
EN 14825:2013	Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling - Testing and rating at part load conditions and calculation of seasonal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	

²³ Product Type as defined by the mandate for standardisation M/535

Reference	Title	Referenced in the Transitional Method of Measurement (2014)	Included in EC Mandate for European Harmonised Standards (2015)	Product Type ²³				
				Boiler Space Heaters Gaseous Fuel	Boiler Space Heaters Liquid Fuel	Co-generation Space Heaters	Heat Pump Space Heaters	Solar Devices
	performance							
EN 15034:2006	Heating boilers - Condensing heating boilers for fuel oil	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
EN 15036-1:2006	Heating boilers - Test regulations for airborne noise emissions from heat generators - Part 1: Airborne noise emissions from heat generators	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
EN 15316-4-1:2008	Heating systems in buildings - Method for calculation of system energy requirements and system efficiencies - Part 4-1: Space heating generation systems, combustion systems (boilers)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
EN 15456:2008	Heating boilers - Electrical power consumption for heat generators - System boundaries - Measurements	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
EN 15502-1:2012 ²⁴	Gas-fired heating boilers - Part 1: General requirements and tests	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
EN 16147:2011	Heat pumps with electrically driven compressors. Testing and requirements for marking of domestic hot water units	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
EN 267:2009 +A1:2011	Automatic forced draught burners for liquid fuels	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
EN 303-1	Heating boilers. Heating boilers with forced draught burners. Terminology, general requirements, testing and marking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
EN 303-2	Heating boilers. Heating boilers with forced draught burners. Special requirements for boilers with atomizing oil burners	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
EN 303-4	Heating boilers. Heating boilers with forced draught burners. Heating boilers with forced draught burners. Special requirements for boilers with forced draught oil burners with outputs up to 70 kW and a maximum operating pressure of 3 bar. Terminology, special requirements, testing and marking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
EN 304:1992	Heating boilers - Test code for heating boilers for atomizing oil burners	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			

²⁴ This standard is set to be updated by prEN 15502-1:2013

Reference	Title	Referenced in the Transitional Method of Measurement (2014)	Included in EC Mandate for European Harmonised Standards (2015)	Product Type ²³				
				Boiler Space Heaters Gaseous Fuel	Boiler Space Heaters Liquid Fuel	Co-generation Space Heaters	Heat Pump Space Heaters	Solar Devices
A1:1998 A2:2003								
FprEN 50465:2013	European product standard for combined heating power systems using gas fuel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		
ISO 9459-5:2007	Solar heating. Domestic water heating systems. System performance characterization by means of whole-system tests and computer simulation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>
prEN 12309-2:2013	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70kW – Safety	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
prEN 12309-3:2012	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70kW – Test Conditions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
prEN 12309-4:2013	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70kW – Test methods	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	
prEN 12309-6:2012	Gas-fired sorption appliances for heating and/or cooling with a net heat input not exceeding 70kW – Calculation of seasonal performances	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	

2.1.2 Supplementary Profile – Transitional Methods of Measurement for Water heaters and hot water storage tanks

Table 2.3 lists the standards referenced within the transitional methods of measurement and the EC Mandate (M534) for a European harmonised standard for water heaters and hot water storage tanks.

Table 2.3 The standards referenced in the transitional methods of measurement for water heaters and hot water storage tanks

Reference	Title	Referenced in the Transitional Method of Measurement (2014)	Included in EC Mandate for European Harmonised Standard (2015)	Product Type ²⁵					
				Electrical water heaters	Water heaters using fossil fuel	Water heaters with enabled smart controls	Solar water heaters and solar devices	Heat pump water heaters	Hot water storage tanks
EN 12102:2013	Air conditioners, liquid chilling packages, heat pumps and dehumidifiers with electrically driven compressors for space heating and cooling — Measurement of airborne noise — Determination of the sound power.	☑	☑					☑	
EN 12897:2006	Water supply. Specification for indirectly heated unvented (closed) storage water heaters	☑	☑						☑
EN 12975-1:2006	Thermal solar systems and components – Solar collectors – General requirements	☒	☑				☑		
EN 12975-2:2006	Thermal solar systems and components — Solar collectors — Part 2: Test methods	☑	☑				☑		
EN 12977-2:2012	Thermal solar systems and components – Custom built systems – Part 2: Test methods for solar water heaters and combi systems	☑	☑				☑		
EN 12977-3:2012	Thermal solar systems and components — Custom built systems — Part 3: Performance test methods for solar water heater stores	☑	☑				☑		☑
EN 13203-2:2006	Gas-fired domestic appliances producing hot water — Appliances not exceeding 70 kW heat input and 300 litres water storage capacity — Part 2: Assessment of energy consumption	☑	☑		☑				
EN 15036-1:2006	Heating boilers. Test regulations for air borne noise emissions from heat generators. Airborne noise emissions from heat generators	☑	☑		☑				

²⁵ Product type as defined by the mandate for standardisation M/534

Reference	Title	Referenced in the Transitional Method of Measurement (2014)	Included in EC Mandate for European Harmonised Standard (2015)	Product Type ²⁵					
				Electrical water heaters	Water heaters using fossil fuel	Water heaters with enabled smart controls	Solar water heaters and solar devices	Heat pump water heaters	Hot water storage tanks
EN 15316-4-3:2007	Heating systems in buildings. Method for calculation of system energy requirements and system efficiencies. Heat generation systems, thermal solar systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
EN 15332:2007	Heating boilers – Energy assessment of hot water storage tanks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
EN 16147:2011	Heat pumps with electrically driven compressors — Testing and requirements for marking for domestic hot water units	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	
EN 16297-1:2012	Pumps. Rotodynamic pumps. Glandless circulators. . General requirements and procedures for testing and calculation of energy efficiency index (EEI)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
EN 26:1997/A3:2006	Gas-fired instantaneous water heaters for sanitary uses production, fitted with atmospheric burners	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
EN 437:2003/A1:2009	Test gases — Test pressures — Appliance categories	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> ²⁶		<input checked="" type="checkbox"/>				
EN 50193-1:2013	Closed electrical instantaneous water heaters, Methods for measuring performance.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
EN 60379:2004	Methods for measuring the performance of electric storage water-heaters for household purposes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
EN 62301:2005	Household Electrical Appliances: Measurement of standby power	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
EN 89:1999/A4:2006	Gas-fired storage water heaters for the production of domestic hot water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
ISO 9459-5:2007	Solar heating. Domestic water heating systems. System performance characterization by means of whole-system tests and computer simulation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		
ISO EN 3741:2010	Acoustics — Determination of Sound Power Levels of Noise Sources Using Sound Pressure — Precision Methods for Reverberation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				

²⁶ Referenced in the mandate outside of the specified work programme but under “other relevant standards”

Reference	Title	Referenced in the Transitional Method of Measurement (2014)	Included in EC Mandate for European Harmonised Standard (2015)	Product Type ²⁵					
				Electrical water heaters	Water heaters using fossil fuel	Water heaters with enabled smart controls	Solar water heaters and solar devices	Heat pump water heaters	Hot water storage tanks
	Room								
ISO EN 3745:2012	Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Precision methods for anechoic rooms and hemi-anechoic rooms	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
prEN 26	Gas-fired instantaneous water heaters for the production of domestic hot water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
prEN 50440:2014	Efficiency of domestic electrical storage water heaters and testing methods	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
prEN 89:2012	Gas-fired storage water heaters for the production of domestic hot water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				

2.1.3 Supplementary Profile – Transitional Methods of Measurement for Directional Lamps, LED Lamps and related equipment

Table 2.4 lists the standards referenced within the transitional methods of measurement and the EC Mandate (M495) for European harmonised standards for directional lamps, LED lamps and related equipment.

Table 2.4 The standards referenced in the transitional methods of measurement for directional lamps, LED lamps and related equipment

Reference	Title	TMM (2014)	EC Mandate M/495 (2013)	EC Mandate M/519 (2013)	Product Class					
					Incandescent	Halogen	CFL	HID ²⁷ Lamps	LED Lamps	LED Modules
CIE 13.3	Method of Measuring and Specifying Colour Rendering Properties of Light Sources	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
CIE 15	Colorimetry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
CIE 63	The spectroradiometric measurement of light sources	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

²⁷ High Intensity Discharge

Reference	Title	TMM (2014)	EC Mandate M/495 (2013)	EC Mandate M/519 (2013)	Product Class					
					Incandescent	Halogen	CFL	HID ²⁷ Lamps	LED Lamps	LED Modules
CIE 84	The measurement of luminous flux	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CIE S 010	Photometry - The CIE System of Physical Photometry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
EN 60064	Tungsten filament lamps for domestic and similar general lighting purposes — Performance requirements	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
EN 60357	Tungsten halogen lamps (non-vehicle) — Performance specifications	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				
EN 60662	High-pressure sodium vapour lamps – Performance specifications	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
EN 60968	Self-ballasted lamps for general lighting services – Safety requirements	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
EN 60969	Self-ballasted lamps for general lighting services – Performance requirements	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
EN 61000-3-2	Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EN 61167	Metal halide lamps – Performance specification	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			
EN 62560	Self-ballasted LED lamps for general lighting services by voltage >50 V – Safety specifications	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	
EN 62612	Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	
EN 62717	LED modules for general lighting - Performance requirements	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>
IEC/TR 61341	Method of measurement of centre beam intensity and beam angle(s) of reflector lamps	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
L2(AP)005	Cone luminous flux measurement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
prEN 13032-4	Light and lighting - Measurement and presentation of photometric data - Part 4: LED lamps, modules and luminaires	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

2.1.4 Supplementary Profile – Transitional Methods of Measurement for Non-directional Household Lamps

Table 2.5 lists the standards referenced within the transitional methods of measurement for non-directional household lamps.

Table 2.5 The standards referenced in the transitional methods of measurement for non-directional household lamps

Reference	Title	Product Class				
		Incandescent	Halogen	CFL	LED Lamps	LED Modules
CIE 13.3	Method of Measuring and Specifying Colour Rendering Properties of Light Sources			<input checked="" type="checkbox"/>		
CIE 15	Colorimetry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
CIE 18.2	The Basis of Physical Photometry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CIE 63	The spectroradiometric measurement of light sources	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
CIE 84	The measurement of luminous flux		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
CIE 97	Guide on the Maintenance of Indoor Electric Lighting Systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
CIE S 010	Photometry - The CIE System of Physical Photometry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
EN 60061-1	Lamp caps and holders together with gauges for the control of interchangeability and safety Part 1 – lamp caps	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
EN 60064	Tungsten filament lamps for domestic and similar general lighting purposes – Performance requirements	<input checked="" type="checkbox"/>				
EN 60357	Tungsten halogen lamps (non-vehicle) — Performance specifications		<input checked="" type="checkbox"/>			
EN 60432-2	Incandescent lamps – Safety specifications – Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes		<input checked="" type="checkbox"/>			
EN 60968	Self-ballasted lamps for general lighting services – Safety requirements			<input checked="" type="checkbox"/>		
EN 60969	Self-ballasted lamps for general lighting services – Performance requirements			<input checked="" type="checkbox"/>		
EN 61000-3-2	Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EN/CIE 62471	Photobiological safety of lamps and lamp systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
EN 62560	Self-ballasted LED lamps for general lighting services by voltage >50 V – Safety specifications				<input checked="" type="checkbox"/>	
EN 62612	Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements				<input checked="" type="checkbox"/>	
EN 62717	LED modules for general lighting - Performance requirements					<input checked="" type="checkbox"/>
prEN 13032-4	Light and lighting - Measurement and presentation of photometric data - Part 4: LED lamps, modules				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Reference	Title	Product Class				
		Incandescent	Halogen	CFL	LED Lamps	LED Modules
	and luminaires					
2002/747/EC	Commission Decision of 9 September 2002 establishing revised ecological criteria for the award of the Community ecolabel to light bulbs and amending Decision 1999/568EC.			<input checked="" type="checkbox"/>		

2.1.5 Supplementary Profile – Transitional Methods of Measurement for Tertiary Lighting

Table 2.6 lists the standards referenced within the transitional methods of measurement for fluorescent lamps without integrated ballast, for high intensity discharge lamps and for ballasts and luminaires able to operate such lamps.

Table 2.6 The standards referenced in the transitional methods of measurement for fluorescent lamps without integrated ballast, for high intensity discharge lamps and for ballasts and luminaires able to operate such lamps

Reference	Title	Product Class							
		Double Capped Fluorescent Lamps	Single Capped Fluorescent Lamps	High Intensity Discharge Lamps	High Pressure Mercury Vapour Lamps	High Pressure Sodium Vapour Lamps	Metal Halide Lamps	Ballasts for Fluorescent Lamps	Luminaires
CIE 13.3	Method of Measuring and Specifying Colour Rendering Properties of Light Sources				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
CIE 15	Colorimetry				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
CIE 18.2	The Basis of Physical Photometry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CIE 84	The measurement of luminous flux					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
CIE 97	Guide on the Maintenance of Indoor Electric Lighting Systems				<input checked="" type="checkbox"/>				
CIE 154	Maintenance of Outdoor Electric Lighting Systems				<input checked="" type="checkbox"/>				
EN 50294	Measurement method of total input power of ballast-lamp circuits							<input checked="" type="checkbox"/>	
EN 60061-1	Lamp caps and holders together with gauges for the control of interchangeability and safety Part 1 – lamp caps	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
EN 60081	Double-capped fluorescent lamps — Performance specifications	<input checked="" type="checkbox"/>							
EN 60188	High-pressure mercury vapour lamps — Performance specifications				<input checked="" type="checkbox"/>				
EN 60598-1	Luminaires — Part 1: General requirements and tests								<input checked="" type="checkbox"/>

Reference	Title	Product Class							
		Double Capped Fluorescent Lamps	Single Capped Fluorescent Lamps	High Intensity Discharge Lamps	High Pressure Mercury Vapour Lamps	High Pressure Sodium Vapour Lamps	Metal Halide Lamps	Ballasts for Fluorescent Lamps	Luminaires
EN 60662	High-pressure sodium vapour lamps — Performance specifications					<input checked="" type="checkbox"/>			
EN 60901	Single-capped fluorescent lamps — Performance specifications		<input checked="" type="checkbox"/>						
EN 61167	Metal halide lamps — Performance specifications						<input checked="" type="checkbox"/>		
EN 62035	Discharge lamps (excluding fluorescent lamps) safety specifications			<input checked="" type="checkbox"/>					
EN 62471	Photobiological safety of lamps and lamp systems	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2002/747/EC	Commission Decision of 9 September 2002 establishing revised ecological criteria for the award of the Community ecolabel to light bulbs and amending Decision 1999/568EC.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

3 List of Product Groups without either European Harmonised Standards or Transitional Methods of Measurement

The remaining product groups from within the assignment that do not have either European harmonised standards or transitional methods of measurement are detailed in Table 3.1.

Table 3.1 Product Groups without either European harmonised standards or transitional methods of measurement

Measure	Ukrainian Intention		Standard Status	EC Mandate for Harmonised Standards	Scope	Applicability to Regulation	
	ED	EL				ED	EL
Simple Set Top Boxes	<input checked="" type="checkbox"/>	N/A	No transitional methods of measurement or harmonised standards ²⁸ .	Mandate Issued 8.09.09 reference M/451 ²⁹ with a requested timetable for delivery of September 2010	The scope of the mandate focused on three elements: <ul style="list-style-type: none"> ■ Procedures and methods for measuring power consumption of simple set-top boxes in 'active' and 'standby' modes ■ Verification procedure for market surveillance purposes ■ Template for test report 	<input checked="" type="checkbox"/>	N/A
Industrial Fans	<input checked="" type="checkbox"/>	N/A	No transitional methods of measurement or harmonised standards.	Mandate Issued 9.01.12 reference M/500 with a requested timetable for delivery of January 2015	The scope of the mandate focused on three elements: <ul style="list-style-type: none"> ■ Procedures and methods for measuring the energy efficiency and associated characteristics of electric mains operated fans and fans with inbuilt motors ■ Definition of energy efficiency classes ■ Definition of efficiency levels ■ Verification procedure for market surveillance purposes ■ Template for test report 	<input checked="" type="checkbox"/>	N/A

²⁸ http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/ecodesign/index_en.htm

²⁹ <http://www.cencenelec.eu/standards/Sectors/SustainableEnergy/Ecodesign/Pages/default.aspx>

4 Status of the Product Groups Transitioning to European Harmonised Standards

Table 4.1 Status of the product groups without European Harmonised Standards

Product Group	Regulation	Mandate			Status
		Ref	Published	Deadline	
Simple Set Top Boxes	Ecodesign	M451	Sept 2009	Sept 2010	The EC mandate 451 is now 5 years past its deadline. The mandate referenced the measurement standard EN 62087 'Methods of measurement for the power consumption of audio, video and related equipment' which was also the subject of the mandate for European harmonised standards for televisions. To date, the development of EN 62087 has not satisfied the Commission to the extent that it is willing to acknowledge that the mandate has been fully executed: see the update for televisions below.
Televisions	Ecodesign and Energy Labelling	M477	Dec 2010	June 2012	The EC mandate 477 to produce harmonised standards for televisions was issued at the end of 2010, with a time period of 18 months to complete the work. Over 3 years have elapsed since the deadline and there remains no European harmonised standard for the measurement of televisions under energy labelling and Ecodesign. CENELEC did develop a European standard under the mandate: EN 62087 was published in April 2012. CENELEC proposed the standard to the European Commission for citation within the Official Journal of the European Union (OJEU). However, in May 2013, the EC notified CENELEC that they did not wish to publish the reference of the standard in OJEU because it was allegedly not fulfilling all the terms of the mandate. Discussions with the responsible Technical Committee followed but it had embarked on the development of the new EN 62087 series of standards, which is to supersede EN 62087:2012 partially. This major review of EN 62087 will be completed in 2015 and CENELEC hopes the concerns of the EC will be solved in this new series ³⁰ .
Tertiary Lighting	Ecodesign and Energy Labelling	M485	Feb 2011	Feb 2012	To date this mandate has yet to yield European harmonised standards for tertiary lighting products, despite the fact that nearly 4 years has elapsed since the deadline passed for the ESOs to produce them. It is understood that the ESOs recently reported to the European Commission that there is currently a lack of expertise and testing capability within the standardisation group, which has led to the delay. The activity of this mandate (M485) and the other two lighting mandates (M495 & M519 – see below) are now being coordinated by a group connected to the CEN & CENELEC Ecodesign Coordination Group – the CEN & CENELEC Ecodesign Coordination Group "Light" ³¹ .
Directional Lamps. LED lamps and related equipment	Ecodesign and Energy Labelling	M495	Oct 2013	Oct 2016	This is the first of two published mandates (see M519 below) for products that fall within the scope of EU regulation No 1194/2012. The mandates do not follow the structure contained within the space and water heating mandates (see below) whereby specific standards are identified and included within a workplan. Rather, this lighting mandate follows an outputs based approach whereby the outputs from the standards are specified.

³⁰ Source: CENELEC Ecodesign Coordination Group Secretariat

³¹ <http://www.cencenelec.eu/standards/Sectors/SustainableEnergy/Ecodesign/Pages/CG-Light.aspx>

Product Group	Regulation	Mandate			Status
		Ref	Published	Deadline	
					<p>These are:</p> <ul style="list-style-type: none"> ■ Revised and/or new definitions for the products covered in the regulations ■ Methods to verify, measure and calculate the aspects covered in the regulations ■ List of criteria for each products in order to be considered compliant ■ Consideration of improved methods of measurement and calculation and new appliance types ■ Ensure tolerance and measurement uncertainties are in compliance with market surveillance verification <p>The activity of this mandate is managed by the CEN & CENELEC Ecodesign Coordination Group "Light".</p>
Non-directional Household Lamps	Ecodesign and Energy Labelling	M495	Oct 2013	Oct 2016	The standardisation harmonising activity for non-directional household lighting is featured within the same EC mandate (M495) which covers directional lighting and mirrors the expected outputs as detailed above. The activity of this mandate is managed by the CEN & CENELEC Ecodesign Coordination Group "Light".
Water Pumps	Ecodesign	M498	Oct 2011	N/A	The mandate did not contain a deadline for completing the schedule of work. Partly as a result, the mandate has yet to be completed but progress is being made on two particular standards. One for the calculation of the Minimum Efficiency Index and one for the calculation of the Energy Efficiency Index of single pump units. The former is referenced EN 16480 and is in the final stages before publication. The latter is further behind, without a reference number and has not been consulted upon yet.
Industrial Fans	Ecodesign	M500	Jan 2012	Jan 2015	The execution of this mandate is progressing well. The technical working group, CEN TC 156/WG17, is completing the development of ' <i>Fans - Procedures and methods to determine the energy efficiency for the electrical input power range of 125 W up to 500 kW</i> ' under mandate 500 from the European Commission in order to provide instruction and guidance on compliance with Ecodesign regulation 327/2011. The harmonised standard will reference other standards including EN ISO 5801 (laboratory testing of fans) and EN ISO 12759 (fan efficiency). After a technical committee meeting in June 2015 the draft is almost ready for release for comment ³² .
LED Lamps	Ecodesign	M519	Feb 2013	N/A	Mandate 519 was developed specifically as a response to the Digital Agenda for Europe initiative and the associated Green Paper on "Lighting the Future". Through this initiative the European Commission identified a series of barriers preventing the further uptake of innovative LED lighting – one of which was incomplete standardisation. Much like M495, this mandate follows an outputs based approach. The expected outputs from M519 are:

³² <https://europeanamca.wordpress.com/2015/09/29/news-update-sept-2015/>

Product Group	Regulation	Mandate			Status
		Ref	Published	Deadline	
					<ul style="list-style-type: none"> ■ A metric and method for calculating and assessing LED luminaire lifetime ■ A standard definition for acceptable colour shift or power consumption over the lifetime of an LED luminaire ■ Enhanced quality of light metric definitions (not just the colour rendering index) ■ Standards for flicker and stroboscopic effects ■ Standards on test methods for photometric and colorimetric performance of LED lamps, luminaires and modules. ■ Completion of prEN 13032-4 (as included in the Table 2.4) <p>The activity of this mandate is managed by the CEN & CENELEC Ecodesign Coordination Group "Light".</p>
Water heaters and hot water storage tanks	Ecodesign and Energy Labelling	M534	April 2015	Dec 2015	The mandate from the EC was issued to the ESOs in April of 2015 and contains an ambitious programme of updates: as detailed in the Table 2.3. The deadline set within the mandate for the update to the standards was December 2015. The ecodesign and energy labelling regulations were published in August 2013, with the transitional methods of measurement being published in July 2014. The timescales for the completion of the mandate within the specified 8 months seems overly ambitious, but, given the elapsed time since the regulations were published, the ESOs have had two years to work on updating the standards.
Space and combination heaters	Ecodesign and Energy Labelling	M535	April 2015	Dec 2015	Much like the water heaters, the mandate to the ESOs to create European harmonised standards for space heaters was published at the same time (April 2015) with the same due date for completion (December 2015). The work schedule remains ambitious, as evidenced by Table 2.2. The ecodesign and energy labelling regulation for space heaters and the transitional methods of measurement were published at the same time as that of water heaters.
Computers and Computer Servers	Ecodesign	N/A	N/A	N/A	Despite the ecodesign regulation being published in June 2013, and the transitional methods of measurement being published in April 2014, there remains no mandate from the EC to the ESOs to create European harmonised standards for computers and computer servers. In spite of the mandate having not been issued progress has been made on developing the harmonised standards. It is hoped that a mandate will be issued soon and the harmonised standards can be completed.