

OVERVIEW ON STATUS OF IMPLEMENTATION OF ECO DESIGN DIRECTIVE 2009/125/EC

Last update: 12.03.2018

Working plan 2005-2008

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
Lot 1: Boilers	VHK www.ecoboiler.org Final report 30.09.2007	24/25.06.2009 Boilers I Boilers II ISC Jan / Feb 2012 WTO notification June 2012	Vote on 13.03.2013	Spring 2013	Commission Regulation 813/2013 of 2 August 2013 on space heaters and combination heaters (O.J. L 239 - 06.09.2013) Transitional methods of measurement and calculation (2014/C 207/02) Commission Implementing Decision C(2015) 2626 of 27.4.2015 on a standardisation request COM guidelines (January	1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirement 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review 1. Space heaters and combination heaters, as defined in article 2, with a rated heat output ≤ 400 kW, including devices integrated in packages mentioned in art. 1.1. Art. 1.2 foresees 7 exclusions. 2. 26.09.2013 3. As of 26.09.2015: • Heaters shall meet energy efficiency requirements set out in Annex II.1a • Combination heaters shall meet energy efficiency values set out in Annex II.2a • Heat pumps space & combination heaters shall not exceed sound emission values set out in Annex II.3 • Product information requirements (including RE information) As of 26.09.2017 • Electric space heaters, electric combination heaters, cogeneration space heaters, heat pump space heaters and heat pump combination heaters shall meet energy efficiency requirements set out in Annex II.1b • Combination heaters shall meet energy efficiency values set out in Annex II.2b As of 26.09.2018 • Heaters shall not exceed nitrogen dioxide emissions values specified in Annex II.4 Resource efficiency requirements • Relevant product information for disassembly, recycling and /or disposal at end of life 4. The Regulation does not provide references to harmonised standards, but Annex III provides measurement and calculation provisions 5. Annex IV includes some provisions on verification procedure, including limit values 6. Annex V provides benchmarks for energy efficiency, sound emissions, and nitrogen oxides emissions 7. No later than 26.09.2018, with a particular attention to emissions to refrigerants, air and noise emissions, biomass sourced heaters, conversion coefficient as well as the third party certification

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		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
					2015) Review ongoing see next line	

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		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
	VHK http://www.ecoboiler-review.eu/index.html 1 st stakeholder meeting 23.01.2018 Final report expected in January 2019					

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Lot 2: Water heaters	VHK www.ecohotwater.org Final report 30.09.2007	08.07.2008 working document Working documents of June 2010 ISC January / May 2012 WTO notification June 2012	31.03.2009 New vote on 13.03.2013	Spring 2013	Commission Regulation 814/2013 of 2 August 2013 on water heaters & hot storage tanks (O.J. L 239 - 06.09.2013) COM guidelines (January 2015) Review ongoing See next line	1. water heaters with a rated heat output ≤ 400 kW and hot water storage tanks with a storage volume $\leq 2\,000$ litres, as defined in art. 2. Art.1.2 provides 7 exemptions. 2. 26.09.2013 3. As of 26.09.2015: • Water heaters shall meet energy efficiency values set out in Annex II.1a, according to the declared load profile • Storage water heaters shall not meet storage volume requirements specified in Annex II.1.2 • Heat pumps water heaters shall not exceed noise emissions values specified in Annex II.1.4 • Product information requirements (including RE information) for water heaters and hot water storage tanks As of 26.09.2017 • Water heaters shall meet energy efficiency values set out in Annex II.1b, according to the declared load profile • Hot water storage tanks shall not exceed standing loss values, to be calculated according to Annex II.2.1 As of 26.09.2018 • Water heaters shall meet energy efficiency values set out in Annex II.1c, according to the declared load profile • Water heaters shall not exceed nitrogen dioxide emissions values specified in Annex II.1.5 Resource efficiency requirements • Relevant product information for disassembly, recycling and /or disposal at end of life NB: Art. 8 foresees transitional provisions for water heaters and hot water storage tanks, which are in conformity with national provisions in force upon adoption of this Regulation. 4. The Regulation does not provide references to harmonised standards, but Annexes III & IV provide measurement and calculation provisions 5. Annex V includes some provisions on verification procedures, including tolerance values 6. Annex VI provides benchmarks for energy efficiency, sound emissions, standing loss and nitrogen oxides emissions 7. No later than 26.09.2016 for water heaters, including an assessment of separate Ecodesign requirements for different types of equipment. No later than 26.09.2018 for water heaters and hot water storage tanks, with a particular attention to emissions to refrigerants, air and noise emissions, biomass sourced heaters, conversion coefficient as well as the third party certification.

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	Review of special aspects VHK http://www.ia-wh-art7.eu/index.html Final report Full review VHK http://www.ecohotwater-review.eu/ Final report expected in January 2019	CF 27.03.2017 Working documents				1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirement 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
Lot 3: Computers & computer servers Electronic displays (see Lot 5 on TVs)	IVF www.ecocomputer.org Final report 27.08.2007	09.10.2009 Working document Computers Displays ISC: July 2012 WTO notification: 21.11.2012	Vote on 28.02.2013		Commission Regulation 617/2013 of 26 June 2013 on computers & servers (O.J. L.175 - 27.06.2013) Commission communication on: transitional methods of measurement (O.J. C 110 - 11.04.2014) COM	1. Computers & computers servers, as defined in art. 2.1 & 2.2, that can be powered directly from the main alternating current (AC), including via an external or internal power supply. Art. 1. provides a list of covered products and exclusions. 2. 17.07.2013 3. Annex II provides the details of requirements for type of products (i.e. desktop computer & integrated desktop computer, notebook computer, desktop thin client, workstation, small scale servers, (mobile) workstation). First stage: 17.07.2013, second stage: 01.07.2014, third stage: 01.01.2016) 4. The Regulation does not provide references to harmonised standards. 5. Annex III includes some provisions on verification procedure, including limit values. 6. Annex IV provides benchmarks for: • Annual total energy consumption (varying per category of desktop computer, integrated desktop computer and notebook computer) • Sleep mode • Off mode 7. Review, in the light of technological progress, no later than 17.01.2017. Art. 9 provides products (discrete graphics cards & integrated displays) and environmental aspects to be assessed (noise and material efficiency)

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					guidelines (June 2014) Review ongoing see next line	
	Viegand Maagøe A/S https://computerregulationreview.eu/welcome Final report April 2017	CF 10.12.2014 Working documents Public consultation on draft COM Regulation 21.12.2016-18.01.2017 CF 06.07.2017 Working documents Public consultation on inception IA 09.02.2018-09.03.2018 Public consultation 13.02-7.05.2018				

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Lot 4: Imaging equipment	Fraunhofer IZM, Final report 07.05.2008 Voluntary agreement on Imaging equipment Voluntary agreement on Medical equipment	12.10.2009 Working document 17.11.2009 IA Board expected in May/June 2012 VA submission to CF January 2012			VA imaging equipment recognition: 29.01.2013 COM report (COM 2013/23) & Staff working document (SWD 2013/15/final /2) Imaging equipment VA to be revised in 2018	1. Copiers, multifunction devices (MFDs), printers, fax machines 2. – 3. by 1 January 2012: <u>Design requirements:</u> • Signatories shall comply with the specifications of ENERGY STAR v1.1 and duplex settings <u>Information requirements:</u> • Environmental information for end-users in relation to use and end-of-life • Includes information on virgin and recycled paper and cartridge disposal and treatment etc. 4. – 5. Reporting and monitoring carried out by the signatories 6. – 7. –

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Lot 5: Televisions & Electronic displays (Lot 3)	Fraunhofer IZM Final report August 2007	16.10.2008 COM working document Review CF 08.10.2012 ISC: foreseen Q4 2013	30.03.2009 (Ecodesign) COM draft proposal (Labelling) COM draft proposal Review: Impact Assessment being updated, vote foreseen in 2015	06.05.2009 P6 TA-PROV(2009) 0357	Commission Regulation 642/2009 of 22 July 2009 on televisions (O.J .L.191 – 23.07.2009) Amendment: Commission Regulation 801/2013 of 22 August 2013 (O.J L 225 – 23.08.2013) COM guidelines (May 2011) Commission Communication: Publication of transitional methods of measurement (O.J. C 114 - 04.05.2010) Review ongoing, see next line	1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirement 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review 1. Television sets or television monitors as defined in art. 2 2. 12.08.2009 3. As of 20.08.2010, • On mode power consumption levels provided for in annex I.1.1, • Home mode for TVs which are delivered with a forced menu (annex I.3) • Peak luminance ration provided for in annex I.4 • Information requirements of annex I.5.2 (including information on content of mercury or lead) As of 01.04.2012: On mode power consumption levels provided for in annex I.1.2 As of 07.01.2010: Standby/off mode power consumption levels provided for in annex I.2.1 As of 20.08.2011: Standby/off mode power consumption levels provided for in annex I.2.2 As of 01.01.2015 (Regulation 801/2013): • Possibility to deactivate wireless network connection(s) • Power management for networked televisions • Power consumption requirements on standby-mode 4. Annex II provides for measurements of the on mode power consumption, standby/off mode power consumption and peak luminance 5. Annex III includes some provisions on verification procedure. 6. No further provisions 7. No later than 12.08.2012 NB: definition, requirements for networked standby power consumption and provisions on verification procedures (Annex III) are amended by Commission Regulation 801/2013

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		CF 10.12.2014 Working documents Public consultation on draft COM Regulation 21.12.2016-18.01.2017 CF 06.07.2017 Working documents Public consultation (TV) 13.02-7.05.2018				

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Lot 6: Standby & Off-modes losses	Fraunhofer IZM Final Report 02.10.2007	19.10.2007 Working document Amendment notified to WTO: January 2013	7.07.2008 COM Draft proposal		Commission Regulation 1275/2008/EC (OJ L 339 - 18.12.2008) Amendment: Commission Regulation 801/2013 of 22 August 2013 (O.J L 225 - 23.08.2013) COM guidelines (October 2009 – update November 2014) Commission Communication: publication of harmonised standards (O.J. C 394 – 20.12.2012) Review ongoing See next line	1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirement 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
	Viegand Maagøe A/S http://www.ecostandbyreview.eu/ Final report April 2017	CF 20.12.2017 Working documents Consultation on inception impact assessment				1. Electrical and electronic household and office equipment (article 1). Annex I provides a list of covered products 2. 7.01.2009 3. As of 7.01.2010, • Off mode power consumption of new products in scope shall not exceed 1 Watt; • Standby power consumption of such products has to be less than 1 Watt or 2 Watts. As of 7.01.2013: • Off mode power consumption shall not exceed 0.5 Watt. • Standby values have to be lowered to 0.5 Watt and 1 Watt. • Power management (or similar) function to switch equipment automatically to standby/off mode/other condition not exceeding standby/off mode levels. This function needs to be activated before delivery. 4. Annex II.3 provides for measurement tolerances of max. 2% at 95% confidence level for power of 0.5W and above, and a tolerance of max. 0.01W at 95% confidence level for power of less than 0.5W. On 17.12.2008, COM issued mandate to CEN, CENELEC and ETSI to create a harmonised standard on: • Procedures and methods for measuring electric power consumption of covered EuP. • Verification procedure for market surveillance purposes • Template for test report Regulation does not include specific provision on harmonised standards or reference to standardisation bodies. 5. Annex III includes some provisions on verification procedure. CEN/CLC/ETSI mandate (see point 4) to include verification procedure 6. Annex IV provides off mode benchmark of 0-0.3W with hard off switch on primary side, and a standby benchmark of 0.1W (reactivation function, display) 7. Review no later than 07.01.2015 NB: • Annex 1.2 is amended by Art. 4 Commission Regulation 617/2013 (on computers & computer servers) • Scope , definition, requirements and review provisions as well as Annexes are amended by Commission Regulation 801/2013

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		26.01-23.02.2018 Public consultation on ecodesign requirements 02.03-24.05.2018				
Lot 7: Battery chargers & External Power supplies	BIO IS www.ecocharger.org Final Report 23.01.2007	22.02.2008 Working doc	17.10.2008 COM Draft proposal Vote expected Q3/Q4 2013	March 2009	Commission Regulation 278/2009/EC (O.J. L. 93 - 07.04.2009) Commission Communication : publication of harmonised standards (O.J. C 130 - 07.05.2013) Review ongoing see next line	1. Electric power consumption in no-load condition and average active efficiency of external power supplies. Article 1 provides six exceptions. 2. 27.04.2009 3. Annex I provides the details of requirements on no-load condition power consumption and average active efficiency. First stage 27 April 2010; second stage 27 April 2011. 4. Regulation does not include specific provision on harmonised standards or reference to standardisation bodies. 5. Annex II includes some provisions on verification procedure. 6. Annex III provides benchmark for the lowest available no-load condition power consumption of external power supplies : • 0,1 W or less, for $P_O \leq 90 \text{ W}$, • 0,2 W or less, for $90 \text{ W} < P_O \leq 150 \text{ W}$, • 0,4 W or less, for $150 \text{ W} < P_O \leq 180 \text{ W}$, • 0,5 W or less, for $P_O > 180 \text{ W}$. The best available average active efficiency of external power supplies : • $0,090 \cdot \ln(P_O) + 0,680$, for $1,0 \text{ W} \leq P_O \leq 10,0 \text{ W}$, • 0,890, for $P_O > 10,0 \text{ W}$. 7. Review no later than 27.04.2013 NB: Article 2.1.g (definition of external power supply) is amended by Art. 5 Commission Regulation 617/2013 (on computers & computer servers)
	Viegand Maagøe Final draft report	CF 18.04.2013 Working doc CF 29.04.2015 Working documents IA in finalisation				
Lot 8: Office lighting	VITO www.eup4light.net Final Report 01.04.2007	18.12.2007 Working doc	26.09.2008 COM Draft proposal	17.02.2009	Tertiary sector lighting products regulation	1. Fluorescent lamps without integrated ballast, of high intensity discharge lamps, and of ballasts and luminaires for products for use in office lighting and public street lighting (article 1). Annex I provides a list of covered products. 2. 13.04.2009 3. Annex III provides the details of requirements by type of product. First stage: 13.04.2010; second stage: 13.04.2012 & 13.04.2015; third stage: 13.04.2017
Lot 9: Street	VITO www.eup4light.net Final Report	22.06.2007 Working doc	tertiary sector lighting products	Commission		

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lighting	01.01.2007 Review VHK, "Omnibus study", final report published in March 2014	15.09.2009 Working doc	regulation		Regulation 245/2009 (O.J. L.76 – 24.03.2009) AMENDMENT COM Regulation 347/2010 published in O.J. L. 104 – 24.04.2010 (consolidated version) Commission Communication : Publication of transitional methods of measurement (O.J. C 92 – 10.04.2010) Review ongoing see next line	4. Regulation does not include specific provision on harmonised standards or reference to standardisation bodies. 5. Annex IV includes some provisions on verification procedure. 6. Annex V provides benchmark for fluorescent lamps without integrated ballast, for high intensity discharge lamps and for ballasts and luminaires able to operate such lamps. Annexes VI and VII provides benchmark for products intended for use in office lighting or in public street lighting 7. Review no later than 13.04.2014 CELMA / ELC Guide for the EcoDesign Regulation 245/2009 on tertiary sector lighting products, December 2010
	Review: light sources (lots 8/9/19) VHK http://ecodesign-lightsources.eu/welcome Final report October 2015	CF 07.12.2015 07.12.2017 COM working documents Consultation on inception impact assessment 26.01-23.02.2018 Public consultation 13.02-7.05.2018				

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Lot 10: Residential room conditioning Appliances	ARMINES Final reports Comfort fans October 2008 Residential ventilation February 2009	22.06.2009 Working doc 23.04.2010 Working doc CF 06.11.2012 (linked to ENTR lot 6) New Working doc 11.04.2013	Air-conditioners & Comfort fans 31 May 2011		Commission Regulation 206/2012 on air conditioners and comfort fans (O.J. L. 72 – 10.03.2012) Commission Communication: Publication of harmonised standards (O.J. C 110 - 11.04.2014) Review ongoing see next line	1. Electric mains-operated air conditioners (rated capacity of ≤ 12 kW for cooling, or heating if no cooling function) and comfort fans with an electric fan power input ≤ 125W (as defined in Article 2.1 & 2.5); Article 1.2 provides specific exemptions. 2. 30.03.2012 3. As of 01.01.2013: • Single duct and double duct air conditioners shall at least meet minimum energy efficiency levels, maximum power consumption in off-mode & standby mode and maximum sound power level (Annex I, tables 1, 2 &3) • Comfort fans shall at least meet maximum power consumption in off-mode & standby mode (Annex I, table 2) • Air conditioners shall at least meet minimum energy efficiency levels and maximum sound power level (Annex I, tables 4 &5) • Information requirements of Annex I.3. - As of 01.01.2014: • Air conditioners shall at least meet minimum energy efficiency levels (Annex I, table 6) • Single duct & double duct air conditioners and comfort fans shall at least meet maximum power consumption in off-mode & standby mode (Annex I, table 7) 4. Any specific standards or reference to standardisation bodies is included in the Regulation; however, annex II provides technical parameters that measurements and calculations shall fulfil 5. Annex III includes some provisions on verification procedure. 6. Annex V provides benchmark for: • air conditioner (SEE: 8.50; SCOP: 5.10) • double duct air conditioner (EER: 3.00 ; COP 3.15) • single duct air conditioner (EE: 3.15 ; COP: 2.60) • global warming potential of refrigerants ≤ 20 7. Review no later than 30.03.2017 (Article 7 provides particular focus for the review such as the use of low global warming potential refrigerants, standby and off mode requirements, seasonal calculation and measurement methods)

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		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
	Viegand Maagøe A/S https://www.eco-airconditioners.eu/ 2 nd Stakeholder meeting 12.01.2018 Final report expected in mid-2018					

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Lot 11: Motors, pumps, circulators & fans	AEA Final reports Motors 18.02.2008 Pumps 01.04.2008 Circulators 01.04.2008 Fans 01.04.2008 Water pumps: VHK, "Omnibus study", final report published in March 2014	27.05.2008 Working documents Motors Pumps Circulators Fans	Motors: 11.03.2009 Glandless Circulators: 30.03.2009	April/May 2009 June/ September 2010	Commission Regulation 640/2009 of 22 July 2009 on electric motors – (O.J. L.191 – 23.07.2009) Corrigendum COM Regulation 640/2009 (O.J. L. 46 – 19.02.2011) AMENDMENT NT: Commission Regulation 4/2014 (O.J. L. 2 - 07.01.2014) COM Guidelines (December 2014) Commission Communication ion: publication of harmonised standards (O.J. C 394 - 20.12.2012) ----- COM Regulation 327/2011 of 30 March 2011 on fans (O.J. L	1. Motors, as defined in article 2.1; Article 1.2 provides specific exemptions. 2. 12.08.2009 3. As of 16.06.2011: - All motors shall at least meet the IE2 efficiency level (annex I.1, Table1), - Information requirements of Annex I.2. As of 01.01.2015, - Motors with a rated output of 7.5-375 kW shall meet, at least, the IE3 efficiency level (annex I.1, Table2), or the IE2 efficiency level and be equipped with a variable speed drive. As of 01.01.2017, - Motors with a rated output of 0,75-375 kW shall meet, at least, the IE3 efficiency level (annex I.1, Table2), or the IE2 efficiency level and be equipped with a variable speed drive. 4. Any specific standards or reference to standardisation bodies is included in the Regulation; however, annex II provides technical parameters that measurements and calculations shall fulfil. 5. Annex III includes some provisions on verification procedure. 6. Annex IV provides as benchmarks the efficiency level of best performing motors available on the market (IE 3 level), as defined in annex I. 7. Regulation review in the light of technological progress no later than 12.08.2016. NB: The scope (especially exclusions) is amended by Commission Regulation 4/2014. The amendment enters into force on 27 January 2014, but it applies six months after the entry into force (27 July 2014). 1. Fans with an electric input power between 125 W and 500 kW, as defined in article 2. Art. 1.2 provides specific exemptions. 2. 26.04.2011 3. As of 01.01.2013 - Ventilation fans shall not have a lower target energy efficiency than as defined
		26.03.2010 (Fans) Motors Amendment CF 20.11.2012 WTO notification March 2013	Fans: 11.06.2010 Motors: Vote on amendment expected in May 2013	June/ September 2010 Motors amendment: August / October 2013		

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		Water pumps ISC May 2011	Water Pumps: March 2012	March / May 2012	90 - 6.4.2011) COM Guidelines (FAQ) (2011) ----- Commission Regulation 641/2009 of 22 July 2009 on glandless standalone circulators and glandless circulators integrated in products (O.J .L.191 – 23.07.2009) AMENDMENT on circulator COM Regulation 622/2012 of 11.07.2012 (O.J. L. 180 - 12.07.2012) Commission's communication on: publication	in Annex I, Section 2, Table 1 - Product information requirements are set out in Annex I, Section 3 As of 01.01.2015 - All fans shall not have a lower target energy efficiency in Annex I, Section 2, Table 2 4. Refers to harmonised standards in Annex I of Directive 98/34/EC 5. Annex III includes some provisions on verification procedure 6. Annex VI provides benchmarks for the best-performing fans 7. Regulation review in particular to assess the feasibility of reducing number of fans types no later than 26.04.2015 1. Glandless standalone circulators and glandless circulators integrated in products as defined in article 2. Article 1 provides two exceptions. (see amendment) 2. 12.08.2009 (amendment: 01.08.2012) 3. As of 01.01.2013: - Energy efficiency index of glandless standalone circulators (exception provided in annex I.1) shall not exceeded 0.27; - Information requirements of annex I.2 (see amendment). As of 01.01.2015, - Energy efficiency index of circulators shall not exceeded 0.23. - Information requirements of annex I.2 (see amendment). 4. Any standards or reference to standardisation bodies is included in the Regulation. However, annex II provides a methodology for calculating the energy efficiency index (see amendment) 5. Annex III includes some provisions on verification procedure. 6. Annex IV provides as benchmark the Energy efficiency index of best performing circulators available on the market, that is $\leq 0,20$. 7. Review of the methodology for calculating the energy efficiency index for glandless circulators integrated in products no later than 01.01.2012; Regulation review no later than 01.01.2017 (including the assessment of design options that can facilitate reuse and recycling). NB: the scope exceptions, definitions, product information requirements and the methodology for calculating the energy efficiency index are amended by Commission Regulation 622/2012

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					of harmonised standards on circulators (O.J. C 254 – 04.09.2013) ----- Commission Regulation 547/2012 of 25 June 2012 on water pumps (O.J. L 165 - 26.06.2012) Commission Communication: Publication of transitional methods of measurement for water pumps (O.J. C 402 - 29.12.2012) Review ongoing for fans, circulators and water pumps	1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirement 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
	<u>Review</u> Fans: VHK http://www.fanreview.eu/introduction.htm <u>Final report</u>	CF 30.04.2015 Working documents				1. Rotodynamic water pumps for pumping clean water, as defined in article 2.10; Article 1.2 provides specific exemptions. 2. 16.07.2012 3. As of 01.01.2013: - Water pumps shall at least meet minimum efficiency levels at the best efficiency point, at part load and at over load according to the type and speed of pumps (Annex I,1.a) - Information requirements of Annex I.2. As of 01.01.2015: - Water pumps shall at least meet minimum efficiency levels at the best efficiency point, at part load and at over load according to the type and speed of pumps (Annex I,1.b) 4. Any specific standards or reference to standardisation bodies is included in the Regulation; however, Annex III provides technical parameters that measurements and calculations shall fulfil. 5. Annex IV includes some provisions on verification procedure. 6. Annex V provides as indicative benchmarks the minimum efficiency index of best performing water pumps available on the market, that is $\geq 0,70$. 7. Review of the tolerances used in the methodology for calculating the energy efficiency no later than 01.01.2014; regulation review in view to adopt an extended product approach no later than 16.07.2016.

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	March 2015 Circulators: Viegand Maagøe A/S http://www.ecocirculatorsreview.eu/index.html Final report due in February 2017 Water pumps VHK http://www.ecopumpreview.eu/index.html Final report scheduled for 2017	IA in finalisation				1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirement 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
Lot 12: Commercial refrigerators & freezers	BIO IS Final report 01.12.2007 JRC Update of the preparatory study: 2012-2014 Final revised study August 2014	23.04.2010 Timeline: COM working doc: June 2014 Impact assessment February-July 2014 CF 02.07.2014 Working documents Impact Assessment finalised				
Lot 13: Domestic refrigerators & freezers	ISIS ENEA, University of Bonn Final report 01.03.2008 Review VHK, "Omnibus study",	04.12.2008 COM working documents: 1 , 2	30.03.2009 (Ecodesign) COM draft proposal (Labelling) COM draft proposal Labelling	07.04.2009 Cover Note from Council 06.05.2009	Commission Regulation 643/2009 on household refrigerating appliances (O.J .L.191 – 23.07.2009)	1. Electric mains-operated household refrigerating appliances (as defined in art. 2) with a storage volume up to 1 500 litres, including appliances sold for non-household use or for the refrigeration of items other than foodstuffs. Article 1 provides five exceptions. 2. 12.08.2009 3. As of 01.07.2010: - Information requirements of annex II.1.1; - Energy efficiency index provided in Annex II.2 by type of product. As of 01.07.2012, - Energy efficiency index provided in Annex II.2 by type of product. As of 01.07.2013:

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
	final report published in March 2014 Dedicated study on food waste List of documents		layout		Commission Communication : Publication of harmonised standards (O.J. C 22 - 24.01.2014) Review ongoing see next line	- Scope - Entry into force - Requirements & compliance deadlines Resource efficiency requirement - Standardisation - Market surveillance - Benchmarks - Review - Fast freezing facilities shall automatically revert to the previous normal storage temperature conditions after no more than 72 hours; - Winter setting switch of refrigerators-freezers shall be automatically operated according to the ambient temperature (details provided in Annex II.1); - When empty, the power consumption of small household refrigerating appliances (storage volume below 10 litres) shall be 0 Watt after no more than 1 hour. As of 01.07.2014, - Energy efficiency index provided in Annex II.2 by type of product. As of 01.07.2015, - Energy efficiency index provided in Annex II.2 by type of product. 4. Any standards or reference to standardisation bodies is included in the Regulation. However, annex II provides a methodology for calculating the energy efficiency index 5. Annex V includes some provisions on verification procedure. 6. Annex VI provides as benchmark the energy efficiency index and noise of best performing household refrigerating appliances, by type of product, available on the market. 7. Review no later than 12.08.2014 (assessment for specific requirements for wine storage appliances no later than 12.08.2011).
	VHK http://www.ecodesign-fridges.eu/Pages/welcome.aspx Final report March 2016	05..2014 Working documents 06.12.2017 COM working documents Consultation on inception impact assessment 26.01-23.02.2018 Public consultation 13.02-7.05.2018			Planned before the end of 2018	
ENTR Lot 1: Professional refrigeration and freezing equipment	BIO IS www.ecofreezer.com.org Final report 26.05.2011	CF 19.01.2012 IA Board expected in October 2012 ISC: June 2013	WTO notification: 28.01-28.03.2014 Vote scheduled on 17.12.2013 postponed to 2014		Commission Regulation 2015/1095 on professional refrigerated storage cabinets, blast cabinets,	1.electric mains-operated blast cabinets, and electric mains-operated professional refrigerated storage cabinets including those sold for the refrigeration of foodstuffs and animal feed (as defined in Art. 2) 2.28.07.2015 3.As of 01.07.2016 - Energy Efficiency Index (EEI) < 115, Annex II - Product information, Annex II (2) As of 01.07.2018 - EEI < 95

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
					condensing units and process chillers of 5 May 2015 (O.J .L.177 – 08.07.2015) Transitional methods measurement and calculation (2017/C 044/01) Review study to start in Q3 2019	As of 01.07.2019 • EEI < 85 4. Annex III provides methods for calculating EEI, Annex IV provides measurements and calculations 5. Annex IX includes some provisions on verification procedure. 6. Annex XII provides as benchmark the EEI, performance of condensing units and process chillers 7. Review no later than 08.07.2020 (see Art. 7)
Wine storage appliances	VHK, "Omnibus study": review of cold appliances Final report published in March 2014 Assessed during the review of lot 13: Domestic refrigerators & freezers.	06.12.2017 COM working documents			<i>Planned before the end of 2018</i>	
Lot 14: Domestic dishwashers & washing machines	ISIS, Final report 19.01.2009 Review VHK, "Omnibus study", final report published in March 2014	04.12.2008 Working doc 26.03.2010 Working doc Dishwasher Washing machine	1.04.2009 Washing machines New vote expected on 28.05.2010		Commission Regulation 1015/2010 on Household Washing machines (O.J. L 293 - 11.11.2010) Corrigendum (O.J. L 298 – 16.11.2010)	1. Electric mains-operated household washing machines (including those powered by batteries), including appliances for non-household use and built-in household washing machines (as defined in art. 2). Art 1.2 excludes household combined washer-driers. 2. 01.12.2010 3. As of 01.12.2011: • Energy efficiency index of appliances shall not exceed 68 • Washing efficiency index provided in Annex I.2 by type of product • Water consumption provided in Annex I.2.1 As of 01.12.2012: • Specific cycles shall be identifiable on the programme selection devices (Annex I.1) • Information requirement in the booklet of instructions of appliances (Annex I.1) As of 01.12.2013: • Appliances shall offer clearly identifiable cycle at 20°C • Energy efficiency index of specific appliances shall not exceed 59 (Annex I.2)

Lot	Study phase	Draft Implementation			Final adoption	Content : 1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirement 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
					Commission communication : Publication of transitional symbols for Reg. 1015/2010 (O.J. C 206 - 13.07.2012) Review ongoing see next line	Water consumption provided in Annex I.2.2 4. No standard or reference to standardisation bodies is included in the Regulation. However, Annex II provides a methodology for calculating the energy efficiency index, the Washing Efficiency Index, water consumption and remaining moisture content. 5. Annex III includes some provisions on verification procedure. 6. Annex IV provides as benchmark water and energy consumptions, washing efficiency and noise emissions of best performing washing machines appliances, by type of product. 7. Regulation review in the light of technological progress no later than 01.12.2014.
					Commission Regulation 1016/2010 on Household Dishwashers (O.J. L 293 - 11.11.2010) Commission Communication : Publication of harmonised standards (O.J. C 169 - 14.06.2013) Review ongoing see next line	1. Electric mains-operated household dishwashers (including those powered by batteries), including appliances for non-household use and built-in household dishwashers (as defined in art. 2). 2. 01.12.2010 3. As of 01.12.2011: - Energy efficiency index provided in Annex I.2.1 by type of product - Cleaning efficiency index of appliances shall not exceed 1.12 As of 01.06.2012, specific information shall be provided in the booklet of instructions of appliances (Annex I.1.2). As of 01.1.2012, the standard cycle shall be identifiable on the programme selection devices and set up as the default cycle (Annex I.1.1) As of 01.12.2013: - Energy efficiency index provided in Annex I.2.2 by type of product - Drying efficiency index provided in Annex I.2.1 by type of product As of 01.12.2016, the energy efficiency index provided in Annex I.2.3 by product type 4. No standard or reference to standardisation bodies is included in the Regulation. However, Annex II provides a methodology for calculating the energy efficiency index, the Cleaning efficiency Index and the Drying efficiency index 5. Annex III includes some provisions on verification procedure 6. Annex IV provides as benchmark water and energy consumptions, energy efficiency, cleaning and drying efficiency, and noise emissions of best performing dishwashers. 7. Regulation review in the light of technological progress no later than 01.12.2014.

Lot	Study phase	Draft Implementation			Final adoption	Content : 1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirement 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
	<u>Washing machines</u> Joint Research Centre http://susproc.jrc.ec.europa.eu/Washing_machines_and_washer_dryers/index.html <u>Review study</u> covering household washing machines and washer-dryers November 2017 <u>Dishwashers</u> Joint Research Centre http://susproc.jrc.ec.europa.eu/Dishwashers/index.html <u>Review study</u> on household dishwashers November 2017	CF 18.12.2017 Working documents Consultation on inception impact assessment 26.01-23.02.2018 CF 19.12.2017 Working documents Consultation on inception impact assessment 26.01-23.02.2018 Public consultation 13.02-7.05.2018			<i>Washing machines: expected by end 2018</i>	

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
Lot 24: Professional washing machines, dryers and dishwashers	Öko-Institut www.ecowet-commercial.org Final report May 2011	CF 29.11.2013 Working documents CF 05.05.2014 Working documents Mandate M/539 accepted by CEN in December 2015 but rejected by CENELEC				
Lot 16: Laundry driers	ECOBILAN Final report March 2009	Household Tumble driers 25.06.2010 Working doc ISC: May 2011	10.05.2012		Commission Regulation 932/2012 of 03.10.2012 on household tumble driers (O.J. L 278 - 12.10.2012) Commission communication : publication of transitional uniform symbol (O.J. C 121 – 20.04.2014) Review ongoing See next line	1. Electric mains-operated and gas-fired household tumble driers and built-in household tumble driers, including those sold for non-household use as defined in article 2. 2. 01.11.2012 3. As of 01.11.2013, • Generic Ecodesign requirements related to cotton laundry apply • The energy efficiency index shall be less than 85 • For condenser household tumble driers the weighted condensation efficiency shall not be lower than 60% - As of 01.11.2015, • for condenser household tumble driers the energy efficiency index (EEI) shall be less than 76 • for condenser household tumble driers, the weighted condensation efficiency shall be not lower than 70 % 4. Refers to Annex I of Directive 98/34/EC 5. Annex III and I includes some provisions on verification procedure 6. Annex IV provides benchmarks for best-performing household tumble driers 7. Regulation review in the light of technological progress no later than 01.11.2017

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
	Viegand Maagøe A/S https://www.review-tumbledriers.eu/ 1st Stakeholder meeting planned in April 2018 Final report expected in February 2019					1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirement 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
Lot 17: Vacuum cleaners	AEA Final report February 2009 Harmonised standards for vacuum cleaners have been published in the OJ on 20.8.2014 here with the reference 2014/C 272/06.	25.06.2010 Working doc CF 08.09.2011 IA Board March 2012 ISC autumn 2012	Vote on 27.02.2013	Commission Regulation 666/2013 of 08.07.2013 on vacuum cleaners (O.J. L. 192 - 13.07.2013) Harmonised standards published in the OJ on 20.08.2014 with the reference 2014/C 272/06. COM Guidelines (September 2014) Review of certain requirements ongoing	1. Electric mains-operated vacuum cleaners (including hybrid vacuum cleaners), as defined in art. 2.1 & 2.2. Art.1.2 foresees exclusions of 7 products. 2. 02.08.2013 3. As of 01.09.2014, • Annual energy consumption shall not exceed 62,0 kWh/year • Rated input power shall not exceed 1 600 W • Vacuum cleaners shall meet at least dust pick up limits on carpet (0.70) and on hard floor (0.95) As of 01.09.2017, • Annual energy consumption shall not exceed 43,0 kWh/year • Rated input power shall not exceed 900 W • Vacuum cleaners shall meet at least dust pick up limits on carpet (0.75) and on hard floor (0.98) and dust re-emission shall not exceed 1,00 %, • Sound power level shall be less than or equal to 80 dB(A), • Durability requirements apply for hose (at least 40 000 oscillations under strain) and operational motor (at least 500 hours) • Information requirements, as specified in Annex I.2 (including relevant information for maintenance & dismantling for professionals) 4. Any specific standards or reference to standardisation bodies is included in the Regulation; however, Annex II provides measurements and calculation methods. 5. Annex III includes some provisions on verification procedure. 6. Annex IV provides as benchmark energy consumptions, dust pick-up, dust re-emission and noise emission of best performing vacuum cleaners. 7. No later than 02.08.2018, including a specific assessment of verification tolerances (annex III), possible inclusion of full size battery operated vacuum cleaners in the scope and measurement parameters. Requirements on the durability of the hose and operational motor lifetime shall be reviewed by 01.09.2016, at the latest.	

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
					See next line	
	Review of durability of the hose and operational motor lifetime VHK http://www.ia-vc-art7.eu/index.html Final report June 2016	CF 27.03.2017 COM documents				
	General review Viegand Maagøe A/S https://www.review-vacuumcleaners.eu/ First stakeholder meeting in March 2018 Final report expected in March 2019					
Lot 18: Set top boxes	Complex set top box BIO IS www.ecocomplexb.org Final report December 2008 Voluntary agreement	CF 12.10.2009 Working document COM ISC May 2012			Voluntary agreement: recognised on 22.11.2012 COM Report (COM/2012/684) Under review see next line	

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
	Ecofys http://cstb.eu/index.php/documents/ Final report October 2017	CF 15.11.2017 Working documents				1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirement 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
	Simple set top box MVV Consulting GmbH Final report 17.12.2007 Review VHK, "Omnibus study", final report published in March 2014	22.02.2008 Working doc	26.09.2008 (simple set top boxes) COM draft proposal	January 2009	Commission Regulation 107/2009/EC published in OJ L 36-8 – 05.02.2009	1. Simple set-top boxes 2. 25.02.2009 3. 25.02.2010 • Standby power consumption of set-top boxes shall not exceed 1 Watt • Active mode shall not exceed 5 Watt 25.02.2012 • Standby power consumption of set-top boxes mode shall not exceed 0,5 Watt • Active mode shall not exceed 5, 00 Watt 4. Regulation does not include specific provision on harmonised standards or reference to standardisation bodies. 5. Annex II includes some provisions on verification procedure. 6. The best available technology for SSTB without any additional features: • Active mode: 4,00 W • Standby mode excluding the display function: 0,25 W • Off-mode: 0 W The best available technology for SSTB with an integrated hard drive: • Active mode: 10,00 W • Standby mode excluding the display function: 0,25 W • Off-mode : 0 W 7. Review no later than 25.02.2014
Lot 19: Domestic lighting I (= non - directional lamps)	VITO www.eup4light.net Final report VHK Review (stage 6 Reg. 244/2009): 2013-2014	28.03.2008 Working doc & possible eco design requirements Review: CF 24.10. 2013 12.03.2014	08.12.2008 (DOM I) COM Draft proposal Review: ISC (April 2004)	17.02.2009	Commission Regulation 244/2009/EC (O.J. L. 76 - 24.03.2009 AMENDMENT Commission Regulation 859/2009 (O.J. L. 247 – 19.09.2009) (consolidated version)	1. Non-directional household lamps with seven exceptions (article 1) 2. 07.04.2009 3. Annex II provide the details of requirements by type of product Stage 1: 1 September 2009, Stage 2: 1 September 2010, Stage 3: 1 September 2011, Stage 4: 1 September 2012, Stage 5: 1 September 2013, Stage 6: 1 September 2016. 4. Regulation does not include specific provision on harmonised standards or reference to standardisation bodies. 5. Annex III includes some provisions on verification procedure. 6. The best available technology for lamps efficacy was 69 lm/W. The best available technology for lamps functionality is described in Annex IV Table 7 The best available technology for lamps mercury content include not more than 1,23mg mercury 7. Review no later than 07.04.2014 NB: table 5 of Annex II is replaced by Commission Regulation 859/2009

Lot	Study phase	Draft Implementation			Final adoption	Content : 1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirement 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
					Commission communication : Publication of transitional methods of measurement (O.J C 22 - 24.01.2014) COM Guidelines July 2015 Review ongoing see lot. 8 and 9	Commission Regulation (EU) 2015/1428 of 25 August 2015 (OJ L 224/1) amended Regulation (EC) No 244/2009 with regards to certain definitions and ecodesign requirements
Lot 19: Domestic lighting II (=directional lighting)	VITO www.eup4light.net Final report October 2009	6.07-15.09.2010 Writing consultation Working document New Working Document June 2011 CF 05.07.2011 Technical subgroup 23.09.2011 WTO notification March / April 2012	13.07.2012		Commission Regulation 1194/2012 of 12.12.2012 on directional lamps, light emitting diode lamps and related equipment (O.J. L 342 - 14.12.2012) Commission communication : Publication of transitional methods of measurement (O.J C 22 - 24.01.2014)	1. Directional lamps, light-emitting diode (LED) lamps and equipment designed for installation between the mains and the lamps, as defined in article 2. 2. 03.01.2013 3. Ecodesign requirements set out in Annex III shall be met according to the following stages: 1 September 2013, 1 September 2014 1 and September 2016. Special purpose products shall comply with the information requirements set out in Annex I. 4. Refers to Annex I of Directive 98/34/EC. 5. Annex IV includes some provisions on verification procedure. 6. Best-performing products and technologies set out in Annex V. 7. Review no later than 03.01.2016 Commission Regulation (EU) 2015/1428 of 25 August 2015 (OJ L 224/1) amended Regulation (EC) No 244/2009 with regards to certain definitions and ecodesign requirements

Lot	Study phase	Draft Implementation			Final adoption	Content : 1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirement 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
					COM Guidelines July 2015 Review ongoing see lot. 8 and 9	
Lot 37 Lighting systems	VITO http://ecodesign-lightingsystems.eu/welcome Final report December 2016					

Working plan 2009-2011

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
ENTR Lot 6: Air-conditioning and ventilation systems	Mines Paris Tech VHK www.ecohvac.eu Final reports Air-conditioning, July 2012 Ventilation, July 2012	Central ventilation (linked to lot 10) CF: 06.11.2012 December 2012 (central air heating & cooling) ISC: August - September 2013 WTO notification in September / October 2013	Vote 16.12.2013		Commission Regulation 1253/2014 of 07.07.2014 On ventilation units (O.J. L 337 – 25.11.2014) Transitional methods of measurement and calculation (2016/C 416/06) Commission implementing Decision C(2015) 8325 of 27.11.2015 on a standardisation request Commission guidelines October 2016 Review study to start in Q1 2019	1. Scope 2. Entry into force 3. Requirements & compliance deadlines Requirements on resource efficiency 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review 1. Ventilation units (both residential and non-residential). Exclusions included in art. 1(2). 2. 15.12.2014 3. As of 01.01.2016: - Residential ventilation units (RVU) and non-residential ventilation units (NRVU) shall comply with the ecodesign requirements set out in annex II, point 1, and annex III, point 1, respectively. - Manufacturers, their authorised representatives and importers of RVUs and NRVUs shall comply with the information requirements set out in annex IV and annex V, respectively. As of 01.01.2018: - RVUs and NRVUs shall comply with the ecodesign requirements set out in annex II, point 2, and annex III, point 2, respectively. 4. Regulation does not include specific provision on standards 5. Annex VI includes provisions on market surveillance 6. Annex VII provides benchmarks for RVUs and NRVUs 7. 01.01.2017: Commission shall assess the need to set requirements on air leakage rates in the light of technological progress. 01.01.2020: Commission shall review this Regulation in the light of technological progress, including an assessment of the possible extension of the scope to cover unidirectional units and bidirectional units, the verification tolerances set out in annex VI, the appropriateness of taking the effect of low-energy consuming filters into account and the need to set an additional tier for ecodesign requirements.
Lot 15: Solid fuel small combustion installations	BIO IS www.ecosolidfuel.org	CF 12.07.2012 ISC: April-May 2013 WTO notification: June/July 2013	Committee meeting: 23&24.09.2013 (no agreement found, vote postponed)		Commission Regulation 2015/1189 of 28.04.2015 Solid fuel boilers (O.J. L 193 –	1. Solid fuel boilers with a rated heat output of 500 kilowatt ('kW') or less, including those integrated in packages of a solid fuel boiler, supplementary heaters, temperature controls and solar devices as defined in Article 2 of Delegated Regulation (EU) 2015/1187. Exceptions are listed in Art. 1(2). 2. 10.08.2015 3. As of 1 January 2020: - Solid fuel boilers shall meet the requirements set out in point 1 and 2 of Annex II from 1 January 2020 4. Standards and measurements are referred to in Annex III 5. Annex IV contains provisions on market surveillance 6. Annex V sets out indicative benchmarks 7. No later than 1 January 2022, the Commission shall assess whether it is appropriate

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
			Approved by regulatory committee 13.10.2014 Vote: 28.04.2015		21.07.2015) Commission implementing Decision C(2016) 7764 of 30.12.2016 on standardisation request	1. Scope 2. Entry into force 3. Requirements & compliance deadlines 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review to include solid fuel boilers with a rated heat output of up to 1 000 kilowatt, to include non-woody biomass boilers, with ecodesign requirements for their specific types of pollutant emissions, to set stricter ecodesign requirements beyond 2020 for energy efficiency and for emissions of particulate matter, organic gaseous compounds and carbon monoxide and to vary the verification tolerances. No later than 22 August 2018, the Commission shall review whether it is appropriate to introduce third party certification for solid fuel boilers.
Electric and fossil fuelled heating equipment: Lot 20: Local room / space heaters	BIO IS TÜV Rheinland www.ecoheater.org/lot20/	CF 20.09.2012 Subgroup meeting: 17.12.2012 ISC: May 2013 WTO notification June 2013	Vote scheduled on 9&10.10.2013 Results: agreement & vote on requirements for electric; gas and oil fired local space heaters; Vote on requirements for solid fuel fired local space heaters postponed Approved by regulatory committee 14.10.2014 Vote: 28.04.2015		Commission Regulation 2015/1188 of 28.04.2015 On local space heaters (O.J. L 193 – 21.07.2015) Commission implementing decision C(2016) 7772 on standardisation request Transitional methods of measurement and calculation (2017/C 076/02) Guidelines November 2017 Review ongoing see next line	1. Domestic local space heaters with a nominal heat output of 50 kW or less and commercial local space heaters with a nominal heat output of the product or of a single segment of 120 kW or less, as defined in Art. 2. Art. 1(a-g) contains exceptions. 2. 10 August 2015 3. From 1 January 2018: Ecodesign requirements for local space heaters are set out in Annex II. Compliance with ecodesign requirements shall be measured and calculated in accordance with the methods set out in Annex III 4. See Annex III points 2 – 5 5. Art. 5 includes provisions on market surveillance 6. Annex V provides benchmarks for best-performing local space heaters 7. No later than 01.01.2019 Commission to review this Regulation in light of technological progress on eventual stricter ecodesign requirements for energy efficiency and for emissions of nitrogen oxides (NOx), whether the verification tolerances should be modified, the validity of the correction factors used for assessing the seasonal space heating energy efficiency of local space heaters and the appropriateness of introducing third party certification.

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
						1. Scope 2. Entry into force 3. Requirements & compliance deadlines Requirements on resource efficiency 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
					Commission Regulation 2015/1185 of 24.04.2015 On ventilation units (O.J. L 193 – 21.07.2015) Guidelines November 2017	1. Solid fuel local space heaters with a nominal heat output of 50 kW or less, as defined in Art. 2. Exceptions available in Art. 1 (2a-g). 2. 10 August 2015 3. From 1 January 2022: Ecodesign requirements for solid fuel local space heaters are set out in Annex II. Measurements and calculations set out in Annex III. 4. See Annex III 5. Art. 5 contains market surveillance provisions 6. Annex V contains indicative benchmarks 7. No later than 22 August 2018, Commission shall review whether it is appropriate to introduce third party certification for solid fuel local space heaters No later than 1 January 2024, Commission shall review this Regulation in the light of technological progress. In particular, the review shall assess: whether it is appropriate to set stricter ecodesign requirements for energy efficiency and for emissions of particulate matter (PM), organic gaseous compounds (OGCs), carbon monoxide (CO) and nitrogen oxides (NOx) and whether the verification tolerances should be modified.

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
Lot 21: Central heating products using hot air to distribute heat (other than CHP)	Review local space heaters Viegand Maagøe A/S https://www.eco-localspaceheaters.eu/ First stakeholder meeting scheduled in March 2018 Final report expected in January 2019					1. Scope 2. Entry into force 3. Requirements & compliance deadlines Requirements on resource efficiency 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
	BIO IS TÜV Rheinland www.ecoheater.org/lot21/ Final report expected in December 2011	CF 25.09.2013 Working documents			Commission Regulation 2016/2281 of 30.11.2016 on air heating products, cooling products, high temperature process chillers and fan coil units (O.J. L 346/1 – 20.12.2016) Transitional methods of measurement and Calculation (2017/C-229/01) Work on	1. Air heating products with a rated heating capacity not exceeding 1 MW, cooling products and high temperature process chillers with a rated cooling capacity not exceeding 2 MW, and fan coil units. 2. 9 January 2017 3. Requirements are laid down in Annex II. From 1 January 2018: • air heating products shall comply with the requirements set out in point (1)(a) and point (5) of Annex II; • cooling products shall comply with the requirements set out in point (2)(a) and point (5) of Annex II; • high temperature process chillers shall comply with the requirements set out in point (3)(a) and point (5) of Annex II; • fan coil units shall comply with the requirements set out in point (5) of Annex II From 26 September 2018: • air heating products and cooling products shall comply with the requirements set out in point (4)(a) of Annex II From 1 January 2021: • air heating products shall comply with the requirements set out in point (1)(b) of Annex II; • cooling products shall comply with the requirements set out in point (2)(b) of Annex II; • high temperature process chillers shall comply with the requirements set out in point (3)(b) of Annex II; • air heating products shall comply with the requirements set out in point (4)(b) of Annex II. In terms of requirements linked to resource efficiency, Annex II requires manufacturers

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		1. Scope 2. Entry into force 3. Requirements & compliance deadlines 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
					guidelines ongoing (draft guideline September 2017)	to provide in the instruction manuals for installers and end-users, information relevant for disassembly, recycling and/or disposal at end-of-life. 4. See Annex III 5. Art. 5 contains market surveillance provisions 6. Annex V contains indicative benchmarks 7. No later than 1 January 2022, COM to review the Regulation in the light of technological progress, and in particular the appropriateness of setting: • ecodesign requirements covering direct greenhouse gas emissions caused by refrigerants; • ecodesign requirements for high temperature process chillers using evaporative condensing and high temperature process chillers using absorption technology; • stricter ecodesign requirements for the energy efficiency and emissions of nitrogen oxides of air heating products, cooling products and high temperature process chillers; • ecodesign requirements for the noise emissions of air heating products, cooling products, high temperature process chillers and fan coil units; • emission requirements on the basis of useful heating or cooling capacity, instead of energy input; • ecodesign requirements for combination warm air heaters; • energy labelling requirements for domestic air heating products; • stricter ecodesign requirements for C2 and C4 warm air heaters; • stricter ecodesign requirements for rooftop and ductable air conditioners and heat pumps; • third party certification; • for all products, the value of the tolerances for verification, as mentioned in the verification procedures set out in Annex IV.
ENTR Lot 4: Industrial and laboratory furnaces and ovens	COBHAM www.eco-furnace.org Final report 13.09.2012	CF 16.05.2014 Working documents			<i>No Regulatory action planned</i>	
Food-preparing equipment:						

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		1. Scope 2. Entry into force 3. Requirements & compliance deadlines 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
Lot 22: Domestic & commercial ovens (electric, gas, and microwave) Lot 23: Domestic & commercial hobs and grills	BIO IS www.ecocooking.org/lot/22/ Final report August 2011	CF 18.04.2012 CF on domestic appliances 11.07.2012 WTO notification: May 2013	11.07.2013	August - October 2013	Commission Regulation 66/2014 on domestic ovens, hobs and range hoods (O.J. L 29 - 31.01.2014) COM guidelines (May 2015) Harmonised standards under Union harmonisation legislation (2017/C 267/01)	1. Domestic ovens (including when incorporated in cookers), domestic hobs and domestic electric range hoods (including when sold for non-domestic purposes), as defined in art.2. Art. 1 provides 10 exclusions. 2. 20.02.2014 3. As of 20.02.2015 - Domestic ovens, hobs & range hoods shall not exceed energy efficiency values set out in Annex I.1 - Range hoods with a maximum air flow higher than 650 m³ /h shall automatically revert to an air flow lower than or equal to 650 m³ /h in a time defined in Annex II - Range hoods providing lighting of the cooking surface shall offer an average illumination (on the cooking surface) higher than 40 lux - Product information requirement (including RE information) for ovens, hobs and range hoods
	BIO IS www.ecocooking.org/lot/23/ Final report August 2011	CF 18.04.2012 CF on domestic appliances 11.07.2012 WTO notification: May 3013				- As of 20.08.2015 - Power consumption of range hoods in 'off mode' shall not exceed 1,00 W - Power consumption of range hoods in 'stand-by mode' shall not exceed 1,00 W - Range hoods shall offer 'stand-by mode' and/or off mode' (or equivalent) - As of 20.08.20.2017: - Range hoods: power consumption in 'off mode' shall not exceed 0,50 W and in 'stand-by mode' shall not exceed 0,50 W - Range hoods shall offer a power management function (or equivalent), to be activated before delivery, that switches equipment after the shortest period of time to 'stand-by mode' and/or off mode' (or equivalent) - As of 20.02.2016 - domestic ovens, hobs & range hoods shall not exceed energy efficiency values set out in Annex I.1 - As of 20.02.2019 - domestic ovens (including multi-cavity ovens), hobs & range hoods shall not exceed energy efficiency values set out in Annex I.1 - Resource efficiency requirements: - Relevant information to reduce total environmental impact (e.g. energy use) of the cooking process - Relevant information for the non-destructive disassembly for maintenance purposes, for dismantling (in particular in relation to the motor and batteries), as well as recycling, recovery and disposal at end-of-life 4. Regulation does not include specific provision on standards 5. Annex III includes some provisions on verification procedure. 6. Annex IV provides benchmarks for energy efficiency, air flow and noise (hoods) 7. 20.02.2021: the review shall assess potential resource efficiency requirements (recovery, recycling, durability, lifetime), the inclusion of professional and commercial appliances as well as fume & odour removal requirements

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
Lot 25: Non-tertiary coffee machines	BIO IS www.ecocoffeemachine.org Final report July 2011	CF 16.12.2011 18.04.2012 Amendment to COM Reg. on networked standby ISC: Autumn 2012 WTO notification: January 2013			Coffee machines covered under: Commission Regulation 1275/2008 Of 17.12.2008 (O.J. L 339 – 18.12.2008) Review ongoing see lot. 6 Standby & Off-modes losses	Commission Regulation 801/2013 (10): - For coffee machines, the Ecodesign Consultation Forums of 16 December 2011 and 18 April 2012 supported the view that a product-specific implementing measure should not be adopted, but that the standby requirements of Regulation (EC) No 1275/2008 should be made more explicit for coffee machines.
Network, data processing and storing equipment: Lot 26: Networked standby losses	Fraunhofer IZM www.ecostandby.org Final report 24.06.2011	CF 14.09.2011 Working documents July 2011 IA May 2012 ISC: April/May 2013	Vote on 21.03.2013		Commission Regulation 1275/2008 Of 17.12.2008 (O.J. L 339 – 18.12.2008) Commission Regulation 801/2013 of 22.08.2013 (O.J. L 225 – 23.08.2013) Review ongoing see lot. 6 Standby & Off-modes losses	Regulation 801/2013 amends (from 01.01.2015): - Regulation 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, - Regulation 642/2009 with regard to ecodesign requirements for televisions.
Machine tools Forming machine tools; Separating machine tools; Physico-chemical process machine tools. ENTR Lot 5: Machine	Fraunhofer IZM www.ecomachinetools.eu/typo/ Final report August 2012					
		CF 12.07.2010 28.03.2011 06.05.2014 Working documents 25.10.2017 Working				

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
tools Voluntary agreement		documents Consultation on inception impact assessment 27.02-27.03.2018				1. Scope 2. Entry into force 3. Requirements & compliance deadlines Requirements on resource efficiency 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
		17.11.2009			Ongoing	
ENTR Lot 3:						
Sound and imaging equipment: DVD/video players and recorders; Video projectors; Digital amplifiers and subwoofers for home theatre.	AEA www.ecomultimedia.org Final report 02.12.2010	CF 09.11.2012 Video players / recorders: No new EU action Projectors: possible requirement Games consoles: possible VA ISC : 08-18.07.2014 First steering committee meeting held on 3rd December 2015			Voluntary agreement: recognised on 03.12.2012 COM Report (COM/2013/023) ---- Voluntary agreement: recognised on 22.04.2015 COM Report (COM/2015/178) Review ongoing see next line	
	VA website http://efficientgaming.eu/meetings-and-activities/ Final report	CF 15.11.2017 Working documents				

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
ENTR Lot 2: Transformers Distribution transformers and Power transformers	VITO www.ecotransformer.org Final report February 2011	CF 20.04.2012 Technical subgroup 29.06.2012 12.04.2013 CF 09.11.2012 ISC: 15.07- 02.08.2013	Vote 13.12.2013		Commission Regulation 548/2014 Of 21 May 2014 (O.J. L 152 – 22.05.2014) Harmonised standards under Union harmonisation legislation (2016/C416/04) Review ongoing See next line	1. Scope 2. Entry into force 3. Requirements & compliance deadlines Requirements on resource efficiency 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review 1. Power transformers with a minimum power rating of 1 kVA used in 50 Hz electricity transmission and distribution networks or for industrial applications. 2. 11 June 2014 3. As of 1 July 2015 (tier 1) / 1 July 2021 (tier 2) • Medium power transformers shall comply with the maximum allowed load and no-load losses or the Peak Efficiency Index (PEI) values set out in Tables I.1 to I.5 from Annex I, excluding medium power pole-mounted transformers, which shall comply with the maximum allowed load and no load losses values set out in Table I.6 of annex I. • Large power transformers shall comply with the efficiency requirements set out in Tables I.7 and I.8 of annex I. As of 1 July 2015 • The product information requirements from article 1 shall be included in any related product documentation, according to annex I article 3. • The technical documentation of the power transformer shall include the information listed in annex I article 3. 4. Regulation does not include specific provision on standards. 5. Annex III includes some provisions on verification procedure. 6. Annex IV provides benchmarks for liquid-immersed medium power transformers, Dry-type medium power transformers and medium power transformers with amorphous steel core. 7. 11 June 2017 at the latest: see article 7 for full details.
	VITO https://transformers.vito.be/ Final report and annexes July 2017	CF 31.10.2017 Working documents ISC possibly in January 2018 (TBC)	Possibly in Q2 2018			
Lot 27: Uninterruptible power supplies (UPS)	AEA group http://ecoups.org/ Final report June 2014					

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		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
Lot 28: Pumps Pumps for private and public waste water and for fluids with high solids content	BIO-IS http://lot28.ecopumps.eu Final report Water pumps VHK http://www.ecopumpprevi.eu.eu/index.html Final report scheduled for 2017	CF horizontal matters 05.05.2014 Working documents				
Lot 29: Pumps Pumps for private and public swimming pools, ponds, fountains and aquariums, as well as clean water pumps	BIO-IS http://lot29.ecopumps.eu Final report Water pumps VHK http://www.ecopumpprevi.eu.eu/index.html Final report scheduled for 2017	CF horizontal matters 05.05.2014 Working documents				
Lot 30: Products in motor systems Products outside the scope of the Regulation 640/2009 on electric motors	ISR-University of Coimbra www.eco-motors-drives.eu/Eco/Home.html Final report expected in 2014	CF horizontal matters 05.05.2014 Working documents 29.09.2014 Working documents IA ongoing				
Lot 31: Products in motor systems, i.e. compressors Products outside the scope of lot 30 and Regulation 640/2009 on electric motors	VHK www.eco-compressors.eu/ Final report June 2014 Final report on low pressure and oil free compressors June 2017	CF 23.10.2014 Working documents				

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Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
Water-using equipment: Sanitary tapware (taps and showerheads) DG ENVI	Öko-Institut www.ecowet-commercial.org Final report 12.07.2011 JRC-IPTS http://susproc.jrc.ec.europa.eu/taps_and_shower/index.html Study launched in June 2013					
Lot 32: Window products	VHK www.ecodesign-windows.eu Final report June 2015	CF 30.09.2015 working documents				
Lot 33: Smart appliances/ meters	VITO http://www.eco-smartappliances.eu/Pages/welcome.aspx Stakeholder meeting held in September 2017 Final report not published yet					
ENTR 7: Steam boilers	PWC https://www.eco-steamboilers.eu/eco-steamboilers/index.php Final report				<i>No Regulatory action planned</i>	

Lot	Study phase	Draft Implementation			Final adoption	Content :
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
	December 2014					1. Scope 2. Entry into force 3. Requirements & compliance deadlines 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
ENTR Lot 8: Indoor Electrical installations (Power cables)	VITO http://erp4cables.net/ Final report May 2015				<i>No Regulatory action planned</i>	
ENTR Lot 9: Enterprise servers	BIO-IS & Fraunhofer IZM https://sites.google.com/a/ecodesign-servers.eu/ecodesign-servers/home Final report July 2015 Building upon the results of the preparatory study, in Apr 2015 COM initiated a technical study, led by Intertek, aiming to support standardisation-related tasks. http://www.server-standards.eu/ Final report August 2016	CF 17.02.2017 Working documents Public consultation 10.07-23.10.2017				
Lot 35: Power generation equipment under 50 MW scope: steam and gas turbines, combustion engines, wind	Viegand Maagoe & Vito for information: rl@viegandmaagoe.dk screening study ("pre-preparatory study") launched in August 2013 results: only wind turbines would be a candidate → No full preparatory study foreseen.				No IM envisaged	

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		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
turbines, PV and hydropower turbines						
Lot 36: Thermal insulation in buildings	VITO & Wuppertal Exploratory study carried out in 2013 Conclusion: no full preparatory study, no ED / EL IM envisaged					

Working Plan 2016-2019

Lot	Study phase	Draft Implementation			Final adoption	Content: 1. Scope 2. Entry into force 3. Requirements & compliance deadlines Resource efficiency requirements 4. Standardisation 5. Market surveillance 6. Benchmarks 7. Review
		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
Building Automation and Control Systems	VITO https://ecodesignbacs.eu/welcome First stakeholder meeting 17.01.2018 End of scoping study expected in March 2018					

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		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
Electric kettles						

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		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
Hand dryers						

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		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
GROW 11 Lifts	Fraunhofer ISI https://www.eco-lifts.eu/eco-lifts-en/ 1 stakeholder meeting on 21st February 2018 Final report expected in summer 2019					

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		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
GROWTH 10 Solar panels and inverters	JRC http://susproc.jrc.ec.europa.eu/solar_photovoltaics/index.html 1 stakeholder meeting scheduled in early summer 2018 Final report expected in 2019					

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		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
ENER 39 Refrigerated containers	Preparatory study to start in Q1 2018					

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		Consultation Forum + Better Regulation consultation if applicable	Regulatory Committee	EP & Council right of scrutiny		
High pressure cleaners	JRC http://susproc.jrc.ec.europa.eu/HighPressureCleaners/index.html					