

Texte zu EU-Regelungen zur umweltgerechten Produktgestaltung und zur Energieverbrauchskennzeichnung in der Beleuchtung – Zusammenstellung ^[1] des Umweltbundesamtes (UBA), Deutschland



Entwürfe der EU-Kommission vom 6. Oktober 2020

Arbeitshilfe:

Entwurf der EU-Kommission für eine Änderungsverordnung zur Produktinformation bei Beleuchtungsprodukten und weiteren Produktgruppen

– Auszug zu Beleuchtungsprodukten (VO 2019/2015/EU) –

Hinweis: Bitte beachten Sie, daß der angehängte Text nur in Englisch verfaßt ist.

EN: Information on EU Lighting Regulations – Ecodesign and Energy Labelling – Compilation ^[1] of the Federal Environment Agency (UBA), Germany

The EU Commission's drafts of 6 October 2020

Work aid: EU Commission draft for an amending regulation on product information for lighting products and other product groups

– Extract concerning light sources (reg. 2019/2015/EU) –

FR: Informations sur réglementations de l'UE concernant l'éclairage – l'écoconception et l'étiquetage énergétique – Compilation ^[1] de l'Agence Fédérale de l'Environnement (UBA), Allemagne

Les projets de la Commission Européenne du 6 octobre 2020

Aide de travail : Projet de la Commission européenne pour une modification du règlement concernant les informations sur les produits pour des produits d'éclairage et d'autres groupes de produits
– Extrait concernant les produits d'éclairage (R. 2019/2015/UE) –

Indication : Veuillez noter que le présent texte n'est disponible qu'en anglais.

^[1] <https://www.eup-network.de/de/eup-netzwerk-deutschland/offenes-forum-eu-regelungen-beleuchtung/dokumente/texte/>

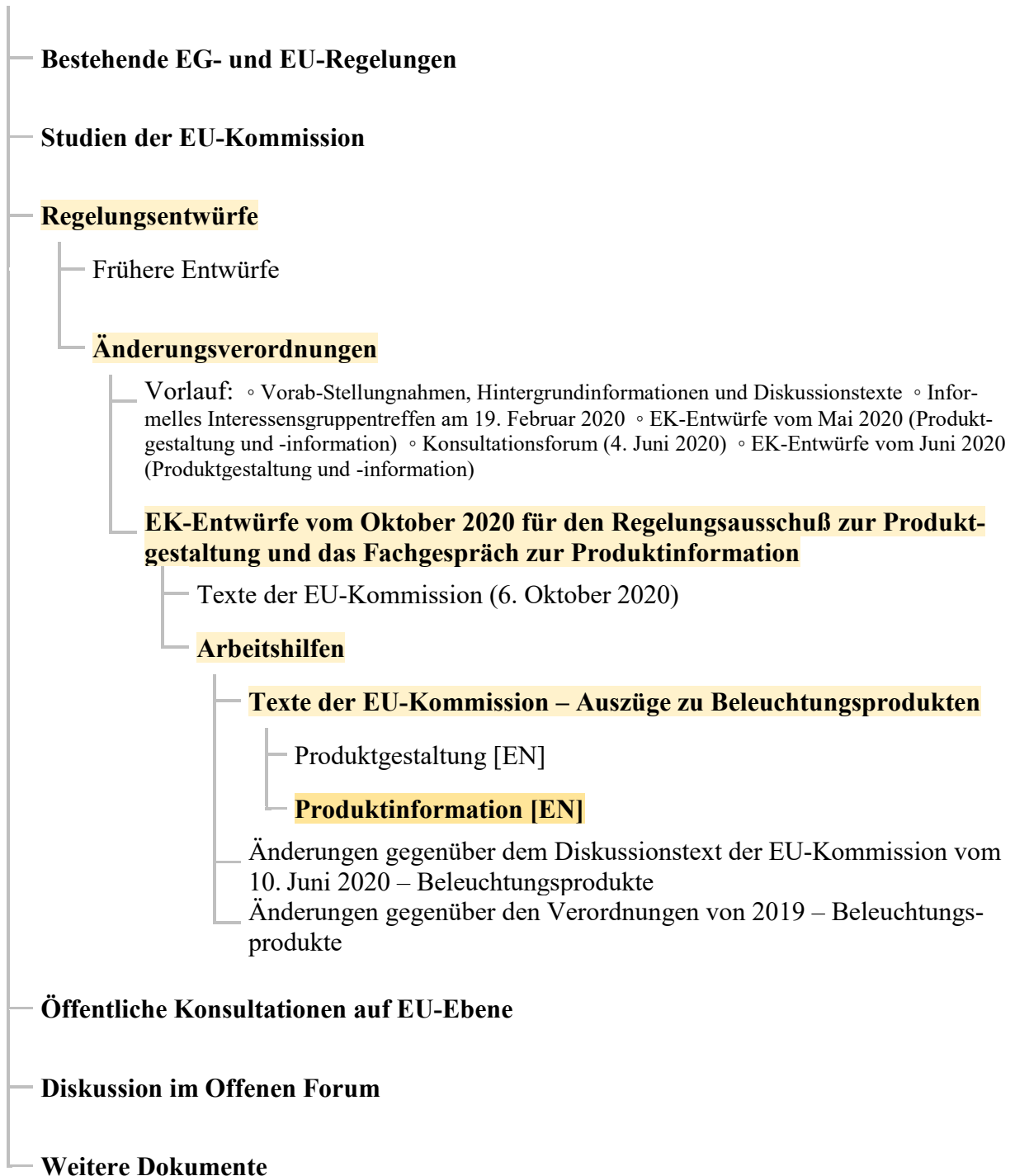
DE: ↓

EN: → page III

FR : → page IV

Texte im Offenen Forum

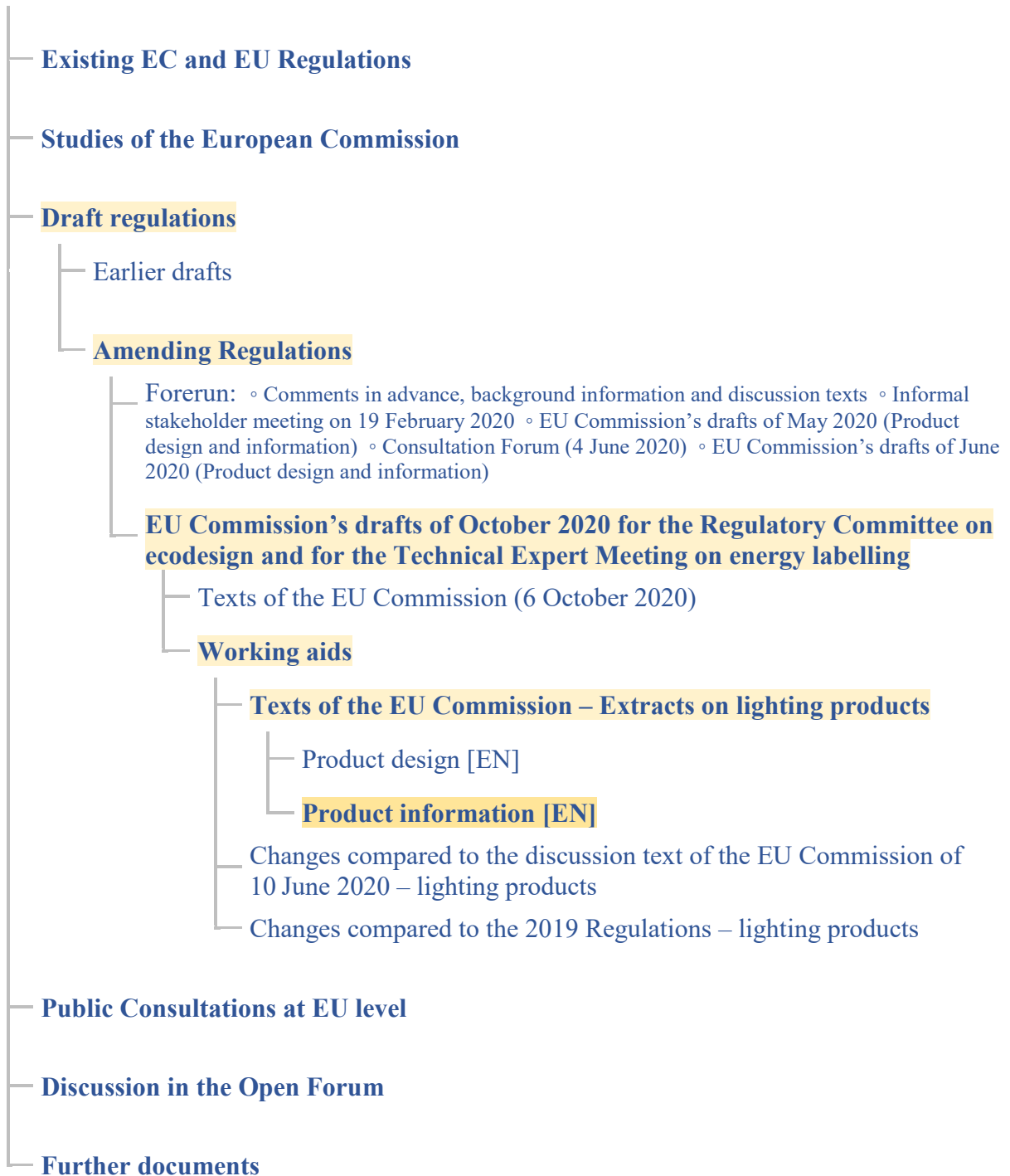
(abc = vorliegender Text)



Abkürzungen: • EG = Europäische Gemeinschaft • EK = EU-Kommission • EU = Europäische Union

Documents in the Open Forum

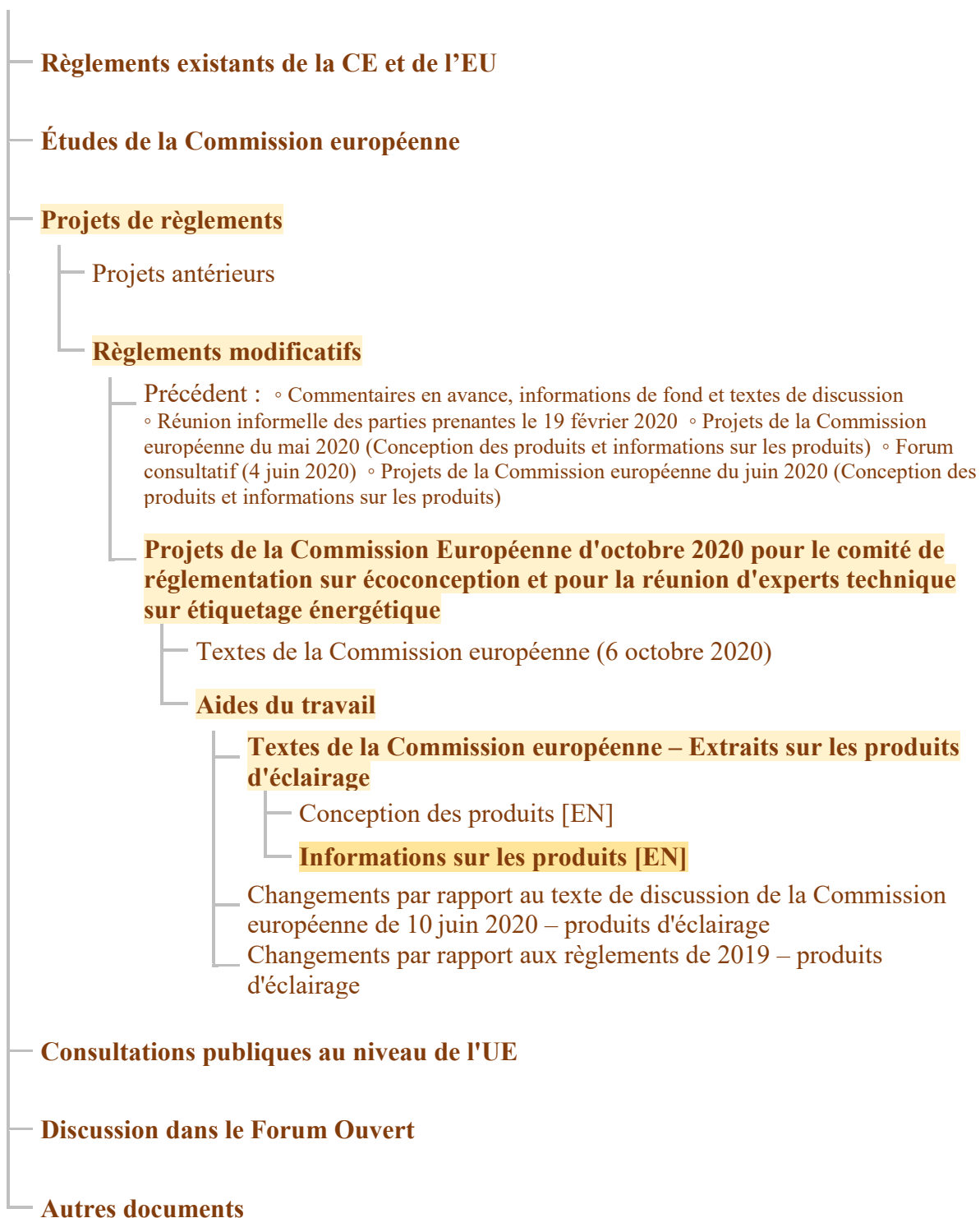
(**abc** = text at hand)



Abbreviations: ● EC = European Communities ● EU = European Union

Documents dans le forum ouvert

(abc = présent document)



Abréviations : ● CE = Communauté européenne ● UE = Union européenne

Es folgt ein unveränderter Originaltext.

EN: The following is an unmodified original text.

FR: Ce qui suit est un texte original.

Offenes Forum EU-Regelungen zur Beleuchtung:
Regelungsentwürfe der EU-Kommission vom 6. Oktober 2020:
Produktinformation – Auszug zu Beleuchtungsprodukten
— Arbeitshilfe von Christoph Mordziol, UBA —

EN:

Open Forum EU Policies on Lighting:
EU Commission's draft regulations of 6 October 2020:
Product Information – Extract on lighting products
— Working aid by Christoph Mordziol, UBA —

FR :

Forum ouvert sur la politique européenne de l'éclairage :
Projets de règlements de la Commission Européenne du 6 octobre 2020 :
L'information sur les produits – Extrait sur les produits d'éclairage
— Aide de travail par Christoph Mordziol, UBA —

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FR : Table des matières

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Vorbemerkungen ◇ Preliminary remarks ◇ Remarques préliminaires

Die EU-Kommission hat Entwürfe für zwei Änderungsverordnungen veröffentlicht. Die Verordnungen sehen Änderungen in einer Reihe von Verordnungen vor, die in einem Falle Anforderungen an die umweltfreundliche Produktgestaltung und im anderen Falle an die Produktinformation stellen.

Die vorliegende Arbeitshilfe behandelt die Entwürfe der EU-Kommission für Änderungen in Verordnungen zur Produktinformation ^[1]. Im Rahmen der Agenda für bessere Rechtsetzung ^[2] können diese 4 Wochen von der Öffentlichkeit lang kommentiert werden: vom 6. Oktober bis 3. November 2020 ^[3].

Die vorliegende Arbeitshilfe umfaßt einen Auszug aus dem Entwurf und hat folgenden Umfang:

- Alle allgemeinen Aussagen sowie
- die Aussagen, die nur Beleuchtungsprodukte betreffen, also die Verordnung 2019/2015/EU ^[4].

The EU Commission has published drafts for two amending regulations. The regulations provide for amendments to a number of regulations, which in one case impose requirements on ecodesign and in the other case on product information.

The present working aid deals with the European Commission's drafts for changes in regulations on product information ^[1]. As part of the better regulation agenda ^[2], the public will be able to comment on these draft regulations for 4 weeks: from 6 October to 3 November 2020 ^[3].

The present work aid comprises an extract from the draft and has the following scope:

- All general statements and
- the statements concerning lighting products only, i.e. Regulation 2019/2015/EU ^[4].

¹ Im *Offenen Forum EU-Regelungen zur Beleuchtung* kann ein Dokument heruntergeladen werden, in dem die beiden Entwürfe zusammengefügt und durch ein vorangestelltes Inhaltsverzeichnis ergänzt sind: ... ◇ EN: A document combining the two drafts, joined together and preceded by a table of contents, can be downloaded from the *Open Forum EU Regulations on Lighting*:

EN: https://www.eup-network.de/fileadmin/user_upload/Lichtquellen_EK_2020_10_06_PI.pdf

² DE: https://ec.europa.eu/info/law/law-making-process/planning-and-proposing-law/better-regulation-why-and-how/better-regulation-guidelines-and-toolbox_de

EN: https://ec.europa.eu/info/law/law-making-process/planning-and-proposing-law/better-regulation-why-and-how/better-regulation-guidelines-and-toolbox_en

FR: https://ec.europa.eu/info/law/law-making-process/planning-and-proposing-law/better-regulation-why-and-how/better-regulation-guidelines-and-toolbox_fr

³ <https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12499-Energy-efficiency-updated-EU-rules-on-energy-labelling>

⁴ DE: https://www.eup-network.de/fileadmin/user_upload/Lichtquellen_VO_2019_2015_EU_DE.pdf

EN: https://www.eup-network.de/fileadmin/user_upload/Lichtquellen_VO_2019_2015_EU_EN.pdf

FR: https://www.eup-network.de/fileadmin/user_upload/Lichtquellen_VO_2019_2015_EU_FR.pdf

Gestaltung des Auszuges:

- Die wiedergegebenen Textteile sind unverändert.
- Ausgelassene Textteile sind durch (...) gekennzeichnet.
- Den wiedergegebenen Textteilen sind die selben Seitenzahlangaben vorangestellt, die auch in dem Ausgangsdokument ^[1] zu finden sind. Dies ist im folgenden beispielhaft gezeigt:

Design of the extract:

- The parts of the text reproduced are unchanged.
- Omitted parts of the text are marked with (...).
- Reproduced text is preceded with the same page numbers as in the original document ^[1]. This is shown in the following example:

**Auszug zu Beleuchtungsprodukten, das heißt zur Verordnung
2019/2015/EU ◇ Extract on lighting products, i.e. on Regulation
2019/2015/EU ◇ Extrait sur les produits d'éclairage, c'est-à-dire
le Règlement 2019/2015/UE**

Ref. Ares(2020)5284546 - 06/10/2020



Brussels, XXX
[...] (2020) XXX draft

COMMISSION DELEGATED REGULATION (EU) .../...

of XXX

amending Delegated Regulations (EU) 2019/2013, (EU) 2019/2014, (EU) 2019/2015, (EU) 2019/2016, (EU) 2019/2017 and (EU) No 2019/2018 with regard to energy labelling requirements for electronic displays, light sources, washing machines and washer-dryers, dishwashers, refrigerating appliances and refrigerating appliances with a direct sales function

(Text with EEA relevance)

This draft has not been adopted or endorsed by the European Commission. Any views expressed are the preliminary views of the Commission services and may not in any circumstances be regarded as stating an official position of the Commission.

EXPLANATORY MEMORANDUM

1. CONTEXT OF THE DELEGATED ACT

In December 2019, the Commission adopted a package of energy labelling and ecodesign regulations imposing new labelling obligations for electronic displays, light sources, washing machines, washer-dryers, dishwashers and refrigerating appliances with a direct sales function.

One of the main changes from the previous energy labelling regulations on such products was to ‘rescale’ the label. In accordance with Article 11 of the Framework Regulation¹, product-specific delegated acts require suppliers to provide rescaled labels with products as of 1 November 2020 (i.e. 4 months before 1 March 2021, the main date of application, which is also the start of the 15-day ‘change-over’ period from the old to the new labels). Also from 1 November 2020, suppliers must enter the parameters of the product information sheet in the product database.

Following the publication of the new regulations in December 2019, it became clear that there were discrepancies between the wording of the different regulations.

These differences concern in particular the references to technical parameters and declared values, and how these affect what must be included in the technical documentation, what must be uploaded in the product database and to what the verification tolerances in each regulation should apply.

The Commission therefore proposes to add a definition of declared values, as well as to amend the annexes on technical documentation to make it clear that declared values should be included. Other technical amendments are also introduced to correct clerical errors, improve accuracy, clarify measurements and make technical adaptations to some parameters. These amendments will help ensure consistency with the ecodesign regulations on the same products.

Further minor technical amendments are proposed to improve accuracy, consistency and cross-referencing.

2. CONSULTATIONS PRIOR TO THE ADOPTION OF THE ACT

A stakeholder meeting was held on 12 February 2019 with representatives of industry, in particular electrical appliance manufacturers, Member States and European consumer and environmental NGOs.

The draft Regulation was discussed at a meeting of the Consultation Forum on 4 June 2020, after which written comments were submitted by 11 Member States, two environmental associations, one consumer association and 13 associations representing industry sectors. These were taken into account to the extent possible.

As the amendments proposed in this Regulation are considered minor, no impact assessment has been undertaken.

¹ Regulation (EU) 2017/1369 of the European Parliament and of the Council of 4 July 2017 setting a framework for energy labelling and repealing Directive 2010/30/EU (OJ L 198, 28.7.2017, p. 1).

3. LEGAL ELEMENTS OF THE DELEGATED ACT

Commission Delegated Regulation (EU) 2019/2013 on the energy labelling of electronic displays is amended by adding a definition of declared values, amending Annex VI on technical documentation and adding a new provision related to transitional methods.

Commission Delegated Regulation (EU) 2019/2014 on the energy labelling of household washing machines and household washer-dryers is amended by adding a definition of declared values and technical clarifications in Annex IV on measurement methods and calculations, Annex V on the product information sheet, Annex VI on technical documentation, Annex VIII on the information to be provided in the case of distance selling through the internet and Annex IX on the verification procedure for market surveillance purposes.

Commission Delegated Regulation (EU) 2019/2015 on the energy labelling of light sources is amended by amending the definition of declared values, amending Annex II to clarify the size of the labels, clarifying the exemptions in Annex IV, making minor changes to the product information sheet table in Annex V and the technical documentation in Annex VI, and amending Annex IX (verification tolerances).

Commission Delegated Regulation (EU) 2019/2016 on the energy labelling of refrigerating appliances is amended by adding a definition of declared values, amending Annex IV (measurement methods and calculations), replacing the product information sheet table in Annex V and amending Annexes VI (technical documentation) and IX (verification tolerances).

Commission Delegated Regulation (EU) 2019/2017 on the energy labelling of household dishwashers is amended by adding a definition of declared values. Amendments are made to Annex II, Annex IV on measurement methods and calculations, Annex V on the product information sheet, Annex VI on technical documentation and Annex IX on the verification procedure for market surveillance purposes are amended with technical clarifications.

Commission Delegated Regulation (EU) 2019/2018 on the energy labelling of refrigerating appliances with a direct sales function is amended by adding a definition of declared values, and amending Annexes III (label), V (product information sheet), VI (technical documentation) and IX (verification tolerances).

The amendments will take effect 2 months after the proposed Regulation enters into force, in order to give economic operators time to adapt.

Legal basis

The Regulation implements the Energy Labelling Framework Regulation (EU) 2017/1369, in particular its Article 11(5) and Article 16. The Regulation is based on Article 194(2) of the Treaty on the Functioning of the European Union.

Subsidiarity principle

The adoption of varying energy labelling measures by individual Member States would create obstacles to the free movement of goods within the EU. Such measures (and any amendments to them) must therefore have the same content throughout the EU. In line with the principle of subsidiarity, it is thus appropriate for this measure to be adopted at EU level.

Proportionality principle

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In accordance with the principle of proportionality, this measure does not go beyond what is necessary to achieve the objective. It clarifies existing requirements in order to improve their application.

Choice of instrument

The proposed form of action is an amending Commission Regulation, because only by amending the Commission Regulations adopted under the Energy Labelling Framework Regulation (EU) 2017/1369 can requirements be fully harmonised throughout the EU.

BUDGETARY IMPLICATION

The proposal has no implications for the EU budget.

ADDITIONAL INFORMATION

Review/revision/sunset clause

The proposal includes no review clause, because the Commission regulations to be amended already have review clauses, which remain unchanged.

European Economic Area

The proposed act concerns an EEA matter and should therefore extend to the EEA.

COMMISSION DELEGATED REGULATION (EU) .../...

of **XXX**

amending Delegated Regulations (EU) 2019/2013, (EU) 2019/2014, (EU) 2019/2015, (EU) 2019/2016, (EU) 2019/2017 and (EU) No 2019/2018 with regard to energy labelling requirements for electronic displays, light sources, washing machines and washer-dryers, dishwashers, refrigerating appliances and refrigerating appliances with a direct sales function

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Regulation (EU) 2017/1369 of the European Parliament and of the Council of 4 July 2017 setting a framework for energy labelling and repealing Directive 2010/30/EU², and in particular Article 11(5) and Article 16 thereof,

Whereas:

- (1) Regulation (EU) 2017/1369 empowers the Commission to adopt delegated acts.
- (2) Provisions on the energy labelling of electronic displays, household washing machines, light sources, household refrigerating appliances, household dishwashers and refrigerating appliances with a direct sales function were established by Commission Delegated Regulations (EU) 2019/2013³, (EU) 2019/2014⁴, (EU) 2019/2015⁵, (EU) 2019/2016⁶, (EU) 2019/2017⁷ and (EU) 2019/2018⁸ (hereafter the “amended Regulations”).

² OJ L 198, 28.7.2017, p. 1.

³ Commission Delegated Regulation (EU) 2019/2013 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of electronic displays and repealing Commission Delegated Regulation (EU) No 1062/2010, (OJ L 315, 5.12.2019, p. 1–28).

⁴ Commission Delegated Regulation (EU) 2019/2014 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of household washing machines and household washer-dryers and repealing Commission Delegated Regulation (EU) No 1061/2010 and Commission Directive 96/60/EC (OJ L 315, 5.12.2019, p. 29–67).

⁵ Commission Delegated Regulation (EU) 2019/2015 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of light sources and repealing Commission Delegated Regulation (EU) No 874/2012 (OJ L 315, 5.12.2019, p. 68–101).

⁶ Commission Delegated Regulation (EU) 2019/2016 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of refrigerating appliances and repealing Commission Delegated Regulation (EU) No 1060/2010 (OJ L 315, 5.12.2019, p. 102–133).

⁷ Commission Delegated Regulation (EU) 2019/2017 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of household dishwashers and repealing Commission Delegated Regulation (EU) No 1059/2010 (OJ L 315, 5.12.2019, p. 134–154).

- (3) In order to avoid confusion for manufacturers and national market surveillance authorities about the values to be included in technical documentation, uploaded in the product database and in relation to verification tolerances, a definition of declared values should be added.
- (4) Technical documentation should be sufficient to allow market surveillance authorities to check the values published on the label and in the product information sheet. In accordance with Article 12 of Regulation (EU) 2017/1369, declared values of the model should be entered into the product database.
- (5) The relevant product parameters should be measured or calculated using reliable, accurate and reproducible methods. Those methods should take into account recognised state-of-the-art measurement methods including, where available, harmonised standards adopted by the European standardisation bodies, as listed in Annex I to Regulation (EU) No 1025/2012 of the European Parliament and of the Council⁹.
- (...)
- (8) The measures provided for in this Regulation were discussed by the Consultation Forum and with the Member States experts in accordance with Articles 14 and 17 of Regulation (EU) 2017/1369.
- (9) Delegated Regulations (EU) 2019/2013, (EU) 2019/2014, (EU) 2019/2015, (EU) 2019/2016, (EU) 2019/2017 and (EU) 2019/2018 should therefore be amended accordingly.

⁸ Commission Delegated Regulation (EU) 2019/2018 of 11 March 2019 supplementing Regulation (EU) 2017/1369 of the European Parliament and of the Council with regard to energy labelling of refrigerating appliances with a direct sales function (OJ L 315, 5.12.2019, p. 155–186).

⁹ Regulation (EU) No 1025/2012 of the European Parliament and of the Council of 25 October 2012 on European standardisation, amending Council Directives 89/686/EEC and 93/15/EEC and Directives 94/9/EC, 94/25/EC, 95/16/EC, 97/23/EC, 98/34/EC, 2004/22/EC, 2007/23/EC, 2009/23/EC and 2009/105/EC of the European Parliament and of the Council and repealing Council Decision 87/95/EEC and Decision No 1673/2006/EC of the European Parliament and of the Council (OJ L 316, 14.11.2012, p. 12).

(...)

HAS ADOPTED THIS REGULATION:

(...)

Article 3

Amendments to Delegated Regulation (EU) 2019/2015

Delegated Regulation (EU) 2019/2015 is amended as follows:

- (1) in Article 2, point (3) is replaced by the following:
‘(3) ‘containing product’ means a product containing one or more light sources, or separate control gears, or both. Examples of containing products are luminaires that can be taken apart to allow separate verification of the contained light source(s), household appliances containing light source(s), furniture (shelves, mirrors, display cabinets) containing light source(s);’;
- (2) in Article 3(1), point (b) is replaced by the following:
‘(b) the values of the parameters included in the product information sheet, as set out in Annex V, are entered into the public part of the product database;’;
- (3) Annexes I, III, IV, V, VI and IX are amended as set out in Annex III to this Regulation.

(...)

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- (4) Annexes I, III, V, VI and IX are amended as set out in Annex VI to this Regulation.

Article 7

Entry into force and application

This Regulation shall enter into force on the third day following its publication in the Official Journal of the European Union.

Article 1(3), Article 2(2), Article 4(3), Article 5(2) and Article 6(4) shall apply from **XXX** *[date – OP please insert date two months after entry into force]*. Article 3(2) shall apply from 1 May 2021. Article 3(1) and (3) shall apply from 1 September 2021.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels,

For the Commission
The President
Ursula VON DER LEYEN



Brussels, **XXX**
[...](2020) **XXX** draft

ANNEXES 1 to 6

ANNEXES

to the

COMMISSION DELEGATED REGULATION

amending Delegated Regulations (EU) 2019/2013, (EU) 2019/2014, (EU) 2019/2015, (EU) 2019/2016, (EU) 2019/2017 and (EU) No 2019/2018 with regard to energy labelling requirements for electronic displays, light sources, washing machines and washer-dryers, dishwashers, refrigerating appliances and refrigerating appliances with a direct sales function

(...)

ANNEX III

Annexes I, III, IV, V, VI and IX to Delegated Regulation (EU) 2019/2015 are amended as follows:

- (1) in Annex I, point (42) is replaced by the following:
 ‘(42) ‘declared values’ means the values provided by the supplier for the stated, calculated or measured technical parameters, in accordance with Article 3(1)(d) and Annex VI, for the verification of compliance by the Member State authorities.’;
- (2) in Annex III, the third paragraph of point 1 is replaced by the following:
 ‘The label shall be:
 - for the standard-sized label, at least 36 mm wide and 72 mm high;
 - for the small-sized label (width less than 36 mm), at least 20 mm wide and 54 mm high.’;
- (3) Annex IV is amended as follows:
 - (a) in point 1, point (a) is replaced by the following:
 ‘(a) in radiological and nuclear medicine installations that are subject to radiation safety standards as set out in Council Directive 2013/59/EURATOM⁽¹⁾;
 - (1) Council Directive 2013/59/Euratom of 5 December 2013 laying down basic safety standards for protection against the dangers arising from exposure to ionising radiation (OJ L 13, 17.1.2014, p. 1).’;
 - (b) in point 3, the following point (1) is added:
 ‘(1) Incandescent light sources with blade contact-, metal lug-, cable-, litz wire-, metric thread-, pin base- or non-standard customised electrical interface, encasing made from quartz-glass tubes, specifically designed and marketed for industrial or professional electro-heating equipment (e.g. stretch blow-moulding process in PET-Industry, 3D-printing, photovoltaic and electronic manufacturing processes, drying or hardening of adhesives, inks, paints or coatings).’
- (4) Annex V is amended as follows:
 - (a) Table 3 is replaced by the following:

Table 3

Product information sheet

Supplier's name or trade mark:

Supplier's address^a:

Model identifier:

Type of light source:

Lighting technology used:	[HL/LFL T5 HE/ LFL T5	Non-directional or directional:	[NDLS/DLS]
---------------------------	--------------------------	------------------------------------	------------

	HO/CFLni/ other FL/ HPS/ MH/ other HID/ LED/ OLED/mixed/ other]		
Light source cap-type (or other electric interface)	[free text]		
Mains or non-mains:	[MLS/NMLS]	Connected light source (CLS):	[yes/no]
Colour-tuneable light source:	[yes/no]	Envelope:	[no/second/non-clear]
High luminance light source:	[yes/no]		
Anti-glare shield:	[yes/no]	Dimmable:	[yes/only with specific dimmers/no]

Product parameters

Parameter	Value	Parameter	Value
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General product parameters:

Energy consumption in on-mode (kWh/1000 h), rounded up to the nearest integer	x	Energy efficiency class	[A/B/C/D/E/F/G] ^b
Useful luminous flux (Φ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	x in [sphere/wide cone/narrow cone]	Correlated colour temperature, rounded to the nearest 100 K, or the range of correlated colour temperatures, rounded to the nearest 100 K, that can be set	[x/x...x/x or x (or x...)]
On-mode power (P_{on}), expressed in W	x,x	Standby power (P_{sb}), expressed in W and rounded to the second decimal	x,xx
Networked standby power (P_{net}) for CLS, expressed in	x,xx	Colour rendering index, rounded to the	[x/x...x]

W and rounded to the second decimal			nearest integer, or the range of CRI-values that can be set	
Outer dimensions without separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)	Height	x	Spectral power distribution in the range 250 nm to 800 nm, at full-load	[graphic]
	Width	x		
	Depth	x		
Claim of equivalent power ^c		[yes/-]	If yes, equivalent power (W)	x
			Chromaticity coordinates (x and y)	0,xxx 0,xxx

Parameters for directional light sources:

Peak luminous intensity (cd)	x	Beam angle in degrees, or the range of beam angles that can be set	[x/x...x]
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Parameters for LED and OLED light sources:

R9 colour rendering index value	x	Survival factor	x,xx
the lumen maintenance factor	x,xx		

Parameters for LED and OLED mains light sources:

displacement factor (cos ϕ l)	x,xx	Colour consistency in McAdam ellipses	x
Claims that an LED light source replaces a fluorescent light source without integrated ballast of a particular wattage.	[yes/-] ^d	If yes then replacement claim (W)	x
Flicker metric (Pst LM)	x,x	Stroboscopic effect metric (SVM)	x,x

^a changes to these items shall not be considered relevant for the purposes of point 4 of Article 4 of Regulation (EU) 2017/1369.

^b if the product database automatically generates the definitive content of this cell the supplier shall not enter these data.

^c '-': not applicable;

'yes': An equivalence claim involving the power of a replaced light source type may be given only:

- for directional light sources, if the light source type is listed in Table 4 and if the luminous flux of the light source in a 90 ° cone (Φ_{90°) is not lower than the corresponding reference luminous flux in Table 4. The reference luminous flux shall be multiplied by the correction factor in Table 5. For LED light sources, it shall be in addition multiplied by the correction factor in Table 6;
- for non-directional light sources, the claimed equivalent incandescent light source power (rounded to 1 W) shall be that corresponding in Table 7 to the luminous flux of the light source.

The intermediate values of both the luminous flux and the claimed equivalent light source power (rounded to the nearest 1 W) shall be calculated by linear interpolation between the two adjacent values.

^d '-': not applicable;

'yes': Claim that a LED light source replaces a fluorescent light source without integrated ballast of a particular wattage. This claim may be made only if:

- the luminous intensity in any direction around the tube axis does not deviate by more than 25 % from the average luminous intensity around the tube; and
- the luminous flux of the LED light source is not lower than the luminous flux of the fluorescent light source of the claimed wattage. The luminous flux of the fluorescent light source shall be obtained by multiplying the claimed wattage with the minimum luminous efficacy value corresponding to the fluorescent light source in Table 8; and
- the wattage of the LED light source is not higher than the wattage of the fluorescent light source it is claimed to replace.

The technical documentation file shall provide the data to support such claims.

(b) Table 7 is replaced by the following:

Table 7
Equivalence claims for non-directional light sources

Light source luminous flux Φ (lm)	Claimed equivalent incandescent light source power (W)
136	15
249	25

470	40
806	60
1 055	75
1 521	100
2 452	150
3 452	200

’;

(5) Annex VI is amended as follows:

(a) in point 1, point (e) is replaced by the following

‘(e) the declared values for the following technical parameters; these values are considered as the declared values for the purpose of the verification procedure in Annex IX:

- (1) useful luminous flux (Φ_{use}) in lm;
- (2) colour rendering index (CRI);
- (3) on-mode power (P_{on}) in W;
- (4) beam angle in degrees for directional light sources (DLS);
- (4a) peak luminous intensity in cd for directional light sources (DLS);
- (5) correlated colour temperature (CCT) in K;
- (6) standby power (P_{sb}) in W, including when it is zero;
- (7) networked standby power (P_{net}) in W for connected light sources (CLS);
- (7a) R9 colour rendering index value for LED and OLED light sources;
- (7b) survival factor for LED and OLED light sources;
- (7c) lumen maintenance factor for LED and OLED light sources;
- (7d) lifetime L70B50 for LED and OLED light sources;
- (8) displacement factor ($\cos \varphi_1$) for LED and OLED mains light sources;
- (9) colour consistency in MacAdam ellipse steps for LED and OLED light sources;
- (10) luminance-HLLS in cd/mm^2 (only for HLLS)
- (11) flicker metric (P_{stLM}) for LED and OLED light sources;
- (12) stroboscopic effect metric (SVM) for LED and OLED light sources;
- (13) excitation purity, only for CTLS, for the following colours and dominant wavelength within the given range:

Colour	Dominant wave-length range
Blue	440 nm — 490 nm
Green	520 nm — 570 nm
Red	610 nm — 670 nm';

- (b) the following point 2 is added:

‘2. The elements listed under point 1 shall also constitute the mandatory specific parts of the technical documentation that the supplier shall enter into the database, pursuant to point 5 of Article 12 of Regulation (EU) 2017/1369.’;

- (6) Annex IX is amended as follows:

- (a) the first paragraph is replaced by the following:

‘The verification tolerances defined in this Annex relate only to the verification by Member State authorities of the declared values and shall not be used by the manufacturer, importer or authorised representative as an allowed tolerance to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means. The values and classes published on the label or in the product information sheet shall not be more favourable for the supplier than the values declared in the technical documentation.’;

- (b) the following second paragraph is inserted:

‘Where a model has been designed to be able to detect it is being tested (e.g. by recognising the test conditions or test cycle), and to react specifically by automatically altering its performance during the test with the objective of reaching a more favourable level for any of the parameters specified in this Regulation or included in the technical documentation or included in any of the documentation provided, the model and all equivalent models shall be considered not compliant.’;

- (c) the second paragraph of Point 1 is replaced by the following:

‘The Member State authorities shall verify 10 units of the light source model for point 2(c) of this Annex. The verification tolerances are laid down in Table 9 of this Annex.’;

- (d) Table 9 is replaced by the following:

Table 9
Verification tolerances

Parameter	Sample size	Verification tolerances
Full-load on-mode power P_{on} [W]:		
$P_{on} \leq 2W$	10	The determined value shall not exceed the declared value by more than 0,20 W.
$2W < P_{on} \leq 5W$	10	The determined value shall not exceed the declared value by more than 10 %.
$5W < P_{on} \leq 25W$	10	The determined value shall not exceed the declared value by more than 5 %.
$25W < P_{on} \leq 100W$	10	The determined value shall not exceed the declared value by more than 5 %.

$100W < P_{on}$	10	The determined value shall not exceed the declared value by more than 2.5 %.
Displacement factor [0-1]	10	The determined value shall not be less than the declared value minus 0,1 units.
Useful luminous flux Φ_{use} [lm]	10	The determined value shall not be less than the declared value minus 10 %.
Standby power P_{sb} and networked standby power P_{net} [W]	10	The determined value shall not exceed the declared value by more than 0,10 W.
CRI and R9 [0-100]	10	The determined value shall not be less than the declared value by more than 2,0 units.
Flicker [P_{st} LM] and stroboscopic effect [SVM]	10	The determined value shall not exceed the declared value by more than 0,1.
Colour consistency [MacAdam ellips steps]	10	The determined number of steps shall not exceed the declared number of steps. The centre of the MacAdam ellipse shall be the centre declared by the supplier with a tolerance of 0,005 units.
Beam angle (degrees)	10	The determined value shall not deviate from the declared value by more than 25 %.
Total mains efficacy η_{TM} [lm/W]	10	The determined value (quotient) shall not be less than the declared value minus 5 %.
Lumen maintenance factor (for LED and OLED)	10	The determined X_{LMF} % of the sample shall not be less than $X_{LMF, MIN}$ % according to the text in Annex V of Commission Regulation (EU) 2019/2020 ⁽¹⁾ .
Survival factor (for LED and OLED)	10	At least 9 light sources of the test sample must be operational after completing the endurance test in Annex V of Regulation (EU) 2019/2020.
Excitation purity [%]	10	The determined value shall not be less than the declared value minus 5 %.
Correlated colour temperature [K]	10	The determined value shall not deviate from the declared value by more than 10 %.
Peak luminous intensity [cd]	10	The determined value shall not deviate from the declared value by more than 25 %.
⁽¹⁾ Commission Regulation (EU) 2019/2020 of 1 October 2019 laying down ecodesign requirements for light sources and separate control gears pursuant to Directive 2009/125/EC of the European Parliament and of the Council and repealing Commission Regulations (EC) No 244/2009, (EC) No 245/2009 and (EU) No 1194/2012 (see page 209 of this Official Journal).		

For light sources with linear geometry which are scalable but of very long length, such as LED strips or strings, verification testing of market surveillance authorities shall consider a length of 50 cm, or, if the light source is not scalable there, the nearest value to 50 cm. The light source supplier shall indicate which control gear is suitable for this length.

When verifying if a product is a light source, market surveillance authorities shall compare the measured values for chromaticity coordinates (x and y), luminous flux, luminous flux density, and colour rendering index directly with the limit values set out in the definition for light source of Article 2 of this Regulation, without applying any tolerances. If any of the 10 units in the sample satisfies the conditions for being a light source, the product model shall be considered to be a light source.

Light sources that allow the end-user to control, manually or automatically, directly or remotely, the luminous intensity, colour, correlated colour temperature, spectrum, and/or beam angle of the emitted light shall be evaluated using the reference

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A Anhang ◇ Annex ◇ Annexe

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