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To:	Mr Jeppe TRANHOLM-MIKKELSEN, Secretary-General of the Council of the European Union

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Delegations will find attached document SWD(2022) 101 final.

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SWD(2022) 101 final

**COMMISSION STAFF WORKING DOCUMENT**

*Accompanying the document*

**COMMUNICATION FROM THE COMMISSION**

**Ecodesign and Energy Labelling Working Plan 2022-2024**

{C(2022) 2026 final}

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### 1. INTRODUCTION

This document contains various background material of relevance for the Ecodesign and Energy Labelling Working Plan 2022-2024.

It notably

- Takes stock of the execution of the 2016 working plan and details the current status and outlook for each product specific work item therein from the perspective of the Commission services.
- Includes information related to the preparation of the 2022-2024 working plan, following the preparatory study (<https://www.ecodesignworkingplan20-24.eu/> ) and the consultation of stakeholders as regards the priorities.

## 2. STATUS FOR THE EXECUTION OF THE 2016 WORKING PLAN

### 2.1. Overview

Table 1 presents an overview of the **progress made with different categories of specific product work items from the 2016 Work Plan** to date. A detailed list with status for each of these items is included in sections 2.3 – 2.5 below. Of the 43 items, around **60% have been concluded**, with 25% resulting in adoption of new or revised regulations. **About 40% of the items are still ongoing** and should be concluded as part of the new working plan.

As regards the then planned 22 “**reviews**” of requirements for existing product groups, half have been concluded, resulting in 13 revised regulations covering 7 product groups. The other half have been delayed and are still pending (cf. also section 7).

As regards the then 21 “**ongoing**” or “**new**” items, only 4 have so far led to new regulatory requirements. For about half of all these items the Commission services have decided to discontinue work or at least not to pursue legislation for now, typically *either* because detailed investigations showed that potentials were smaller or harder to exploit than initially thought *or* because human resources available were insufficient in the context of many other priorities pending *or* a combination of these two. Compressor packages and electric kettles are both examples of such discontinued workstreams. The remainder of items in these categories are still subject to further work and will be pursued under the new working plan.

*Table 1: Summary of status for different types of work items from the 2016 Working Plan*

Work Plan item type	Number of work items listed in the Work Plan	New/revised regulation(s) adopted	Concluded / no specific regulation pursued for now	Ongoing / to be pursued in new working plan
“Ongoing work”	9	3 items (4 regulations)	3	3
“Reviews” due by 2019	22	7 items (13 regulations)	4	11
“New” work items	12	1	8	3
<b>Total</b>	<b>43</b>	<b>11</b>	<b>15</b>	<b>17</b>
<b>Total (%)</b>	<b>100%</b>	<b>Ca. 25%</b>	<b>Ca. 35%</b>	<b>Ca. 40 %</b>

## 2.2. Key developments since the adoption of the 2016 Working Plan

Since the adoption of the 2016 Working Plan, the following key developments took place:

- New **Energy Labelling Framework Regulation** adopted by Council and Parliament
- New **Tyre Labelling Regulation** adopted by Council and Parliament
- Establishment of a **European Product Registry for Energy Labeling (EPREL)**, where ca. 1 million models have been registered by about 6,800 suppliers
- **Revised and new Ecodesign requirements** for 7 and 3<sup>1</sup> product groups, respectively
- **Revised and new Energy Labelling requirements** for 5 and 1<sup>2</sup> product groups, respectively
- **4 “omnibus” regulations**<sup>3</sup> (i.e. “horizontal” regulations amending several product regulations)
- Reinforced **support to market surveillance**, e.g. through a ‘concerted action’ (EEPLIANT3<sup>4</sup>), a new EU-funded market surveillance campaign and new links between the IT-applications EPREL and ICSMS<sup>5</sup>.
- A **COVID-19 related Commission notice** inviting national market surveillance authorities to take into account exceptional circumstances in relation to certain requirements<sup>6</sup>.
- **Litigation activity has increased**. In 2018 a regulation on energy labelling of vacuum cleaners was annulled following a successful challenge by a manufacturer, and since then 6 new actions were brought before the court (4 of those have meanwhile been withdrawn, 2 have been dismissed).
- **Work related to technical standardisation has continued increasing**: the number of monitored standardisation requests tripled from 7 in 2013 to 21 in 2021 and the **number of monitored standards almost increased tenfold** (from 10-15 to over 100). Around 50 unique draft standards have been assessed with the help of technical specialists alone in 2019 – 2021.

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<sup>1</sup> Servers and data storage products, refrigerating appliances with a direct sales function and welding equipment

<sup>2</sup> Refrigerating appliances with a direct sales function

<sup>3</sup> Regulation (EU) 2021/340, Regulation (EU) 2021/341, Regulation (EU) 2017/254 and Regulation (EU) 2016/2282

<sup>4</sup> <https://eepliant.eu/index.php/new-about-eepliant/about-eepliant3>

<sup>5</sup> Information and Communication System for Market Surveillance: <https://webgate.ec.europa.eu/icsms/>

<sup>6</sup> C/2020/3547, OJ C 182, 2.6.2020

### 2.3. Status for items identified as “ONGOING WORK” in the 2016 plan

Measure (as it was called in Working Plan 2016)	Status (as expressed in Working Plan 2016 <sup>7</sup> )	Status now - detailed	Status - headline
<b>Commercial refrigeration</b>	<i>Consultation forum took place on 2.7.2014. Impact assessment finalised</i>	Ecodesign (ED) & Energy Labelling (EL) regulations (for “refrigerating appliances with a direct sales function”) <b>adopted</b> as part of 2019 package of measures	New regulations adopted
<b>Compressors</b>	<i>Consultation forum took place on 29.09.14. Impact assessment ongoing</i>	Draft Impact assessment (shared with Consultation forum in July 2021) showed lower potential than expected – the <b>Commission does not intend to develop ED or EL measures for the time being.</b>	Concluded / no specific regulation pursued for now
<b>Windows</b>	<i>Consultation forum took place on 30.09.15. Impact assessment ongoing</i>	Given that limited progress has been made and that both the Energy Performance of Buildings Directive (EPBD) and the Construction Products Regulation (CPR) are now under review, the <b>Commission does not intend to develop ED or EL measures for the time being.</b>	Concluded / no specific regulation pursued for now
<b>Machine tools and welding equipment</b>	<i>Consultation forum took place on 6.05.14. Impact assessment ongoing</i>	ED regulation for welding equipment <b>adopted</b> as part of 2019 package of measures	New regulation adopted
<b>Professional washing machines, dryers and dishwashers</b>	<i>Consultation forum took place on 29.11.13. Standardisation work ongoing.</i>	The relevant standardisation work has been completed. The preparatory study for the new Working Plan recommended to pursue work on this yet unregulated product group.  The Commission <b>intends as part of the new working plan to develop measures for these products groups.</b>	To be pursued in new working plan
<b>Enterprise servers, data storage and ancillary equipment</b>	<i>Preparatory study finished in 08.15</i>	ED regulation <b>adopted</b> as part of 2019 package of measures	New regulation adopted
<b>Water-related products</b>	<i>Preparatory study finished in 12.14 (not yet published)</i>	Preparatory study was published <sup>8</sup> . Standardisation work ongoing in CEN. Draft voluntary agreement was presented to CF December 2019 and raised significant concerns.  The Commission <b>will decide on the possible development of ED or EL measures, or approval of a VA</b> , on the basis of the progress made in the standardisation work.	Ongoing / to be pursued in new working plan
<b>Smart appliances</b>	<i>Preparatory study ongoing</i>	Preparatory study <b>completed.</b>  The Commission has initiated a new project led by its Joint Research Center to study further and <b>possibly develop a code of conduct</b>	Ongoing / to be pursued in new working plan
<b>Lighting controls/systems</b>	<i>Preparatory study ongoing</i>	Preparatory study <b>completed</b> and presented to the Consultation Forum on 08.03.2016.  The discussion was not conclusive on how appropriate ED would be to regulate systems. Partially addressed in the acts on lighting products reviewed in 2019 thorough requirements on controls and on lighting quality (e.g. flickering).  The Commission <b>does not intend to develop ED or EL measures for the time being.</b>	Concluded / no specific regulation pursued for now

<sup>7</sup> Quotes from COM(2016)773

<sup>8</sup> <https://publications.jrc.ec.europa.eu/repository/handle/JRC92487>

## 2.4. Status for “REVIEWS” due by 2019 as listed in the 2016 plan

<b>Measure (as it was called in Working Plan 2016)</b>	<b>Status (as expressed in Working Plan 2016<sup>9</sup>)</b>	<b>Status now - detailed</b>	<b>Status headline</b>
<b>Televisions (review) and electronic displays</b>	<i>Consultation forum took place on 10.12.14. Inter-Service Consultation closed. WTO notification ongoing</i>	Adopted in 2019. Amended in 2021 (“omnibus”).	New regulations (2) adopted
<b>External power supplies</b>	<i>Consultation forum took place on 29.04.15. Intention is to align with new US rules.</i>	Adopted in 2019.	New regulation (1) adopted
<b>Electric motors</b>	<i>Review study finalised in July 2014. Impact assessment ongoing</i>	Adopted in 2019. Amended in 2021 (“omnibus”).	New regulation (1) adopted
<b>Fans</b>	<i>Review study finalised in March 2015. Impact assessment ongoing</i>	Ongoing	Ongoing / to be pursued in new working plan
<b>Lighting products</b>	<i>Review study finalised in December 2015. Impact assessment ongoing</i>	Adopted in 2019. Amended in 2021 (“omnibus”).	New regulations (2) adopted
<b>Domestic refrigerators and freezers</b>	<i>Review ongoing</i>	Adopted in 2019. Amended in 2021 (“omnibus”).	New regulations (2) adopted
<b>Dishwashers and washing machines including combined washer-driers</b>	<i>Reviews ongoing</i>	Adopted in 2019. Amended in 2021 (“omnibus”).	New regulations (4) adopted
<b>Standby and off mode electric power consumption of electrical and electronic household and office equipment</b>	<i>Review ongoing</i>	Will be adopted in 2022.	Ongoing / to be pursued in new working plan
<b>Water pumps</b>	<i>Review ongoing</i>	Ongoing	Ongoing / to be pursued in new working plan
<b>Water heaters and hot water storage tanks</b>	<i>Review by September 2016 of certain requirements.</i>	Presented to Consultation Forum on 27.3.2017. The Chair concluded that the Regulation would not be amended at this point in time, but that the various issues raised would be addressed in the upcoming, full revision	Concluded / no specific regulation pursued for now
<b>Vacuum cleaners</b>	<i>Review by September 2016 of specific durability requirements</i>	Presented to Consultation Forum on 27.3.2017. It was concluded that a specific amendment to the Regulation would not be made at that point in time.	Concluded / no specific regulation pursued for now
<b>Computers and computer servers</b>	<i>Review ongoing</i>	Ongoing	Ongoing / to be pursued in new working plan
<b>Circulators</b>	<i>Review ongoing</i>	Ongoing	Ongoing / to be pursued in new working plan
<b>Air conditioners and comfort fans</b>	<i>Review by April 2017</i>	Ongoing	Ongoing / to be pursued in new working plan
<b>Transformers</b>	<i>Review by June 2017</i>	Adopted in 2019.	New regulation (1) adopted
<b>Tumble driers</b>	<i>Review by May/November 2017</i>	Ongoing	Ongoing / to be pursued in new working plan

<sup>9</sup> Quotes from COM(2016)773

<b>Vacuum cleaners</b>	<i>Review by August 2018</i>	Ongoing	Ongoing / to be pursued in new working plan
<b>Solid fuel boilers</b>	<i>Review by August 2018 of specific requirement for third party certification</i>	A specific review study was finalised but recommended option turned out not to be legally feasible. <sup>10</sup>	Concluded / no specific regulation pursued for now
<b>Solid fuel local space heaters</b>	<i>Review by August 2018 of specific requirement for third party certification</i>	A specific review study was finalised but recommended option turned out not to be legally feasible. <sup>11</sup>	Concluded / no specific regulation pursued for now
<b>Space and water heaters</b>	<i>Review by September 2018</i>	Ongoing	Ongoing / to be pursued in new working plan
<b>Local space heaters</b>	<i>Review by January 2019</i>	Ongoing	Ongoing / to be pursued in new working plan
<b>Ventilation units</b>	<i>Review by December 2019</i>	Ongoing	Ongoing / to be pursued in new working plan

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<sup>10</sup> See <https://www.3rdpartysolidfuel.eu/documents> (final report and minutes of 2nd stakeholder meeting)

<sup>11</sup> See <https://www.3rdpartysolidfuel.eu/documents> (final report and minutes of 2nd stakeholder meeting)

## 2.5. Status for items identified as “NEW” in the 2016 plan

Measure	Status as expressed in Working Plan 2016 <sup>12</sup>	Status - detailed	Status - headline
<b>Building Automation and Control Systems</b>	<i>..will be subject to preparatory studies that investigate in more detail..</i> <sup>13</sup>	Preparatory study completed and presented to Consultation Forum in November 2021. <b>The Commission does <u>not</u> intend to develop ED or EL measures for the time being.</b>	Concluded / no specific regulation pursued for now
<b>Electric kettles</b>	<i>..will be subject to preparatory studies that investigate in more detail..</i>	Preparatory study completed and presented to Consultation Forum in January 2021. <b>The Commission does <u>not</u> intend to develop ED or EL measures for the time being.</b>	Concluded / no specific regulation pursued for now
<b>Hand dryers</b>	<i>..will be subject to preparatory studies that investigate in more detail..</i>	Preparatory study completed in May 2020. <b>The Commission does <u>not</u> intend to develop ED or EL measures for the time being.</b>	Concluded / no specific regulation pursued for now
<b>Lifts</b>	<i>..will be subject to preparatory studies that investigate in more detail..</i>	Preparatory study completed in October 2019. <b>The Commission does <u>not</u> intend to develop ED or EL measures for the time being.</b>	Concluded / no specific regulation pursued for now
<b>Solar panels and inverters</b>	<i>..will be subject to preparatory studies that investigate in more detail..</i>	Preparatory study completed. <b>The Commission <u>aims to adopt</u> ED or EL measures by indicatively Q2 2023.</b>	Ongoing / to be pursued in new working plan
<b>Refrigerated containers</b>	<i>..will be subject to preparatory studies that investigate in more detail..</i>	Preparatory study partially completed and presented to Consultation Forum in November 2020. <b>Commission does <u>not</u> intend to develop ED or EL measures, but will consider possibility to adress certain stationary applications as part of review of Regulation (EU) 2015/1095.</b>	Concluded / no specific regulation pursued for now
<b>High-pressure cleaners</b>	<i>..will be subject to preparatory studies that investigate in more detail..</i>	Preparatory study completed and identified only limited potential gains <sup>14</sup> . <b>The work on high pressure cleaners will be discontinued – the Commission does <u>not</u> intend to develop ED or EL measures for the time being.</b>	Concluded / no specific regulation pursued for now
<b>Gateways (home network equipment)</b>	<i>Commission will launch a more in-depth assessment with a view to their possible inclusion in the ecodesign working plan</i>	This product group has been further studied in the context of the ICT study and the preparatory study for the new Working Plan as part of “small office and home network equipment( SOHO)”. <b>The Commission does <u>not</u> intend to develop ED or EL measures for the time being.</b>	Concluded / no specific regulation pursued for now
<b>Mobile/smart phones</b>	<i>Commission will launch a more in-depth assessment with a view to their possible inclusion in the ecodesign working plan</i>	Preparatory study completed and presented to Consultation Forum on 28.6.2021. <b>Commission <u>aims to adopt</u> ED and EL measures indicatively not later than Q4 2022.</b>	Ongoing / to be pursued in new working plan
<b>Base stations</b>	<i>Commission will launch a more in-depth assessment with a view to their possible inclusion in the ecodesign working plan</i>	This product group has been further studied in the context of the ICT study and the preparatory study for the new Working Plan. <b>The Commission does <u>not</u> intend to develop ED or EL measures for the time being.</b>	Concluded / no specific regulation pursued for now
<b>Signage displays</b>	<i>Signage displays .. will be taken up in the ongoing work on the revision of the existing implementing ecodesign measures for televisions..</i>	<b>Completed:</b> digital signage displays have been included within the scope of the ED & EL regulations for electronic displays adopted as part of 2019 package of measures. MEPS have not been set at this stage, however	New regulation adopted

<sup>12</sup> Quotes from COM(2016)773

<sup>13</sup> “..no Ecodesign measure will be proposed for Building Automated Control Systems, if it is considered that the energy saving potential in buildings can be better captured via changes in the Energy Performance of Buildings Directive and/or the Energy Efficiency Directive”

<sup>14</sup> <https://publications.jrc.ec.europa.eu/repository/handle/JRC119856>

<b>Wireless chargers</b>	<i>..wireless charging will be taken up in the ongoing work on the revision of the existing implementing ecodesign measures for external power supplies respectively (common charger)</i>	In the revision, which led to the adoption of Commission Regulation (EU) 2019/1782 of 1 October 2019 laying down ecodesign requirements for external power supplies pursuant to Directive 2009/125/EC of the European Parliament and of the Council and repealing Commission Regulation (EC) No 278/2009, it was decided address this question in the next review which i.a. should assess “options for including within the scope of the Regulation wireless chargers”. This review is now <b>ongoing</b> .	Ongoing / to be pursued in new working plan
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### 3. EXAMPLES OF CIRCULAR ECONOMY REQUIREMENTS IN EXISTING MEASURES

Requirement Product	Durability	Repairability/ Refurbishment	Recyclability	Reusability of components	Consumables
Refrigerating appliances with a direct sales function (also referred to as Commercial refrigerators)					
Household dishwashers					
Refrigerating appliances (including household refrigerators)	Info. on the min. duration of the guarantee offered by the supplier	Spare parts minimum availability; spare parts replaceable with the use of commonly available tools; access to repair and maintenance information; maximum delivery time for spare parts	Removability of components; product specific provisions	Removability of parts with the use of commonly available tools without causing permanent damage	
Electronic displays	Info. on minimum guaranteed availability of software and firmware updates, and of product support more generally (dates)				
Household washing machines + washer-dryers					
Welding equipment					Information on use of welding wire, filler and shield gas
Light sources and separate control gears	declared lifetime based on L70B50 for LED and OLED light sources		Removability of components		
Vacuum cleaners	Hose durability and operational motor lifetime	Information for non-destructive disassembly		Information on non-destructive disassembly	
Servers and data storage products		Firmware; disassemblability of key components	Weight range of cobalt in batteries and neodymium in hard disks	Availability of a functionality for secure data deletion	



#### 4. PRODUCTS AND INITIATIVES IDENTIFIED IN TASK 3 OF THE PREPARATORY STUDY

To start reflections on a shared technical basis, a **preparatory study** was conducted to analyse a wide range of product groups and initiatives for possible inclusion. The study's website<sup>15</sup> allowed gathering technical feedback from stakeholders. A **roadmap** for publishing the Working Plan was published on the "Have Your Say" portal to collect feedback in the period between 5 May and 2 June 2021. A total of 42 responses were gathered in this consultation process. In addition, members of the **European Ecodesign and Energy Labelling Consultation Forum ("EELCF")**<sup>16</sup>, established under the Ecodesign Directive (Art.18) and the Energy Labelling Regulation (Art.14) were consulted and provided input in a meeting on 13 July 2021 as well as in writing after the meeting. Further feedback was received directly from Member States and industry associations.

The table below gives an overview of the 31 products and initiatives from Task 3 showing primary energy savings in the use phase and related to the material savings (embedded in materials).

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<sup>15</sup> <http://www.ecodesignworkingplan20-24.eu/>

<sup>16</sup> <https://ec.europa.eu/transparency/regexpert/index.cfm?do=groupDetail.groupDetail&groupID=3609>

Product groups & horizontal initiatives	Primary energy savings PJ 2030	
	Use phase	Material content
<b>Product groups</b>		
Professional laundry appliances	33	
Professional dishwashers	20	
Professional cooking appliances	117	
Small-scale cooking products	39	
Low temperature emitters	170	
Windows	70	
Water decalcifiers / softeners	20	20
Swimming pool heaters	14-63	
Aircurtains	2	1
Non-tertiary coffee machines	6	8
Tertiary hot beverage equipment	19	1
Hair dryers	15	1
Street lighting systems via PV	70	
Greenhouse covers	14-15	
Unmanned aircrafts (drones)		
Enterprise network equipment	22	3
Small network equipment for home and office use	69	7
Interconnected home audio and video	18	13
Universal external power supplies		12-27
Universal batteries		19-45
Uninterruptible power supplies	55	1
Electric vehicle chargers	11	
Base stations	30	
Industrial smart sensors	76-152	5
<b>Horizontal initiatives</b>		
Lightweight design		180
Recycled content		160
Ecological profile		
Durability		175-1052
Innovative IT solutions facilitating market surveillance		
Firmware and software		
Scarce and critical raw materials		

Note: Blank cells: Not quantified or small potential (source: preparatory study, cf. <https://www.ecodesignworkingplan20-24.eu/> ).

From the above table, a more limited number of specific products were identified, for being part of the indicative list of new energy-related product groups to be analyzed under exploratory studies. Priority has been given to those products having the highest potential for energy and/or material efficiency, and at the same time scoring well on other criteria and benefitting from stakeholders support<sup>17</sup>.

## 5. SUMMARY OF STAKEHOLDER FEEDBACK RECEIVED IN PREPARING THE 2022-2024 WORKING PLAN

As part of the preparatory study, two stakeholder consultation events were organized and expert and stakeholder views were analysed by the Commission's consultants.

<sup>17</sup> For instance, professional cooking appliances and industrial smart sensors were identified by the preparatory study as having high-energy savings potentials. However, they are both not part of the final list of new energy-related product groups. In fact, professional cooking appliances in the study constituted a range of seven product groups, which thus individually each have much lower estimated energy savings. Stakeholders identified industrial smart sensors as a negative priority.

Subsequently, a Roadmap for the Working Plan<sup>18</sup> was published on the Have Your Say portal. At this stage the Commission received 42 written submissions of feedback from an array of organisations. Most input came from business associations (21). Input also came from NGOs (7), large companies (3), national and regional governments (2), private citizens (2) and others. In terms of geographical representations, feedback was received from respondents in Belgium, Germany, Portugal, Spain, the Netherlands, Austria, France, Cyprus, the UK and from EU-wide organisations.

The feedback received covered a number of specific products and horizontal measures. In particular, the following groups of products stood out: base stations, electric vehicle chargers, universal batteries and power supplies, swimming pool heaters outdoor and indoor heaters, professional coffee machines and network equipment. Some product groups received concrete proposals for ecodesign and energy labelling measures. Potential savings from industrial sensors were deemed minimal, even though the sensors can play a major role in overall industrial savings. Including food appliances, received negative attention because of the pressures on the hotel, restaurant and catering sector in the post-pandemic environment. One stakeholder suggested the inclusion of windows and doors. Professional cleaning devices were flagged for standardisation issues. In terms of horizontal measures, circularity was considered as important, especially regarding durability and recyclability. However, horizontal measures were criticised for unclear implementing pathways under the current legal framework. Photovoltaics, in particular, seemed to require better alignment of the proposal with established environmental impact standards.

## 6. EFFECT OF HIGH ENERGY PRICES FROM 2021 ONWARDS ON ESTIMATED USER EXPENDITURE SAVINGS FROM ECODESIGN AND ENERGY LABELLING

The Ecodesign impact accounting report<sup>19</sup> is a report that has the purpose to show the impact of the EU ecodesign and energy labelling measures since their introduction with a timeframe up to 2030. The report uses historical data until end 2020, thus it does not include the effect of the rising energy prices that started occurring since mid-2021<sup>20</sup>.

Compared to the estimate for 2020 published in the latest edition of the Ecodesign impact accounting report (€60 billion), the **reduction in consumer expenditure is estimated to have roughly doubled in 2021 (reaching almost €130 billion)**<sup>21</sup> (based on an increase applied to the commodity price, while taxes and network costs were not reviewed).

For 2022, a first estimate shows that **savings could again double in 2022 compared to 2021**, reaching €259 billion (of which €42 billion regarding appliances using natural gas) if energy prices in 2022 will stay at the levels of January and February 2022<sup>22</sup>. The

<sup>18</sup> [https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12852-Energy-efficiency-and-circular-economy-ecodesign-and-energy-labelling-working-plan-2020-2024\\_en](https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12852-Energy-efficiency-and-circular-economy-ecodesign-and-energy-labelling-working-plan-2020-2024_en)

<sup>19</sup> <https://op.europa.eu/en/publication-detail/-/publication/568cac02-5191-11ec-91ac-01aa75ed71a1/language-en>

<sup>20</sup> Source: European Power Benchmark (EPB7) (EC-AAENM00) for electricity prices and NL TTF Day Ahead (GTFUX00) for natural gas prices

<sup>21</sup> Savings cover households, industry and tertiary sector. They were €60 bio in 2020 and estimated to raise to 65 bio in 2021. With the increase in electricity rate, the value in 2021 changes to 108 bio and, when including the increase in gas rates, to 126 bio.

<sup>22</sup> Data source for the recalculation of estimated savings in 2021 and 2022: European Power Benchmark as for the electricity price and NL TTF Day Ahead as for the natural gas price

estimate for 2022 does not take into account the effect of potential government intervention on components of the energy price (taxes and network costs) or of changes in consumer behaviours (e.g. advanced or delayed appliance purchases, or more careful behavioural patterns triggered by higher prices).

## 7. REVIEWS DUE OR EXPECTED BEFORE END 2025

### Overview of existing EU ecodesign, energy labelling and tyre labelling measures

Product group <sup>23</sup>	Type(s) of measure <sup>24</sup>			Relevant acts/ legislation <sup>25</sup>	Deadline for evaluations, reviews and/or rescaling <sup>26</sup>	Preliminary estimate of potential primary energy savings (TWh/y in 2030 <sup>27</sup> ) or other impacts (if any figures available)	Status/ Next steps
	E D	E L	V A				

<sup>23</sup> NB! The short titles don't necessarily reflect full scope of products covered

<sup>24</sup> ED: Ecodesign rules, EL: Energy labelling rules (including tyre labelling), VA: Voluntary agreements

<sup>25</sup> Only basic act listed (not subsequent amendments)

<sup>26</sup> For implementing regulations and delegated acts, the deadlines are for presenting the review to the Consultation Forum as specified in the review clause. For energy labels yet to be rescaled, also the deadline for this is as laid down in the framework regulation is mentioned. For the evaluations of the latter and of the tyre labelling regulation, the deadlines are those laid down by the co-legislators

<sup>27</sup> Most measures will not yet deploy their full effect in 2030. These figures are thus an underestimate of the total effect of the measures, which may take place in 2035 or 2040

<b>Heating and cooling</b>						
Space and combination heaters	X		<a href="#">Regulation (EU) 813/2013</a> <a href="#">Council Directive 92/42/EEC</a>	2018-09-26	50TWh/y	Planned: <a href="#">Link to Have-Your-Say portal</a>
		X	<a href="#">Regulation (EU) 811/2013</a>	2018-09-16 2025-08-02		Planned: <a href="#">Link to Have-Your-Say portal</a>
Water heaters/storage tanks + solar devices	X		<a href="#">Regulation (EU) 814/2013</a>	2018-09-26	15TWh/y	Planned: <a href="#">Link to Have-Your-Say portal</a>
		X	<a href="#">Regulation (EU) 812/2013</a>	2018-09-26 2025-08-02		Planned: <a href="#">Link to Have-Your-Say portal</a>
Local Space Heaters  (labelling in same regulation)  Solid fuel local space heaters	X		<a href="#">Regulation (EU) 2015/1188</a>	2018-01-01	3.2TWh/y	Planned: <a href="#">Link to Have-Your-Say portal</a>
		X	<a href="#">Regulation (EU) 2015/1186</a>	2023-08-02	8 TWh/y	To be initiated
		X	<a href="#">Regulation (EU) 2015/1185</a>	2024-01-01	2.2 TWh/y	To be initiated
Air conditioners (incl. air to air heat pumps)	X		<a href="#">Regulation (EU) 206/2012</a>	2017-03-30	4 TWh/y	Planned: <a href="#">Link to Have-Your-Say portal</a>
		X	<a href="#">Regulation (EU) 626/2011</a>	2016-07-26 2023-08-02		Planned: <a href="#">Link to info at Have-Your-Say portal</a>
Solid fuel boilers	X		<a href="#">Regulation (EU) 2015/1189</a>	2022-01-01	2.8 Twh/y	To be initiated
Air heating/cooling products	X		<a href="#">Regulation (EU) 2016/2281</a>	2022-01-01		To be initiated
<b>Other product groups with energy labels up for rescaling</b>						
Ventilation units (labelling for residential only)	X		<a href="#">Regulation (EU) 1253/2014</a>	2020-01-01	7,3 TWh/y	Planned: <a href="#">Link to Have-Your-Say portal</a>
		X	<a href="#">Regulation (EU) 1254/2014</a>	2020-01-01		Planned: <a href="#">Link to Have-Your-Say portal</a>
Tumble driers	X		<a href="#">Regulation (EU) 932/2012</a>	2017-11-02	0.1TWh/y	Planned: <a href="#">Link to Have-Your-Say portal</a>
		X	<a href="#">Regulation (EU) 392/2012</a>	2017-05-29 2023-08-02	0.75TWh/y	Planned: <a href="#">Link to Have-Your-Say portal</a>
Vacuum cleaners	X	*	<a href="#">Regulation (EU) 666/2013</a>	2018-08-02	2.5-4 TWh/y	Planned: <a href="#">Link to info on Have-Your-Say portal</a>  *(New EL: <a href="#">Link to info on Have-Your-Say</a> )

						portal)
Domestic cooking appliances: ovens, range hoods, hubs (NB: no label for hubs)	X		<a href="#">Regulation (EU) 66/2014</a>	2021-02-20		To be initiated
		X	<a href="#">Regulation (EU) 65/2014</a>	2023-08-02		To be initiated
<b>Other priority reviews</b>						
Horizontal: Standby / off mode consumption	X		<a href="#">Regulation (EC) 1275/2008</a>	2016-01-07	4 TWh/year	Planned: <a href="#">Link to info on Have-Your-Say portal</a>
Water pumps	X		<a href="#">Regulation (EU) 547/2012</a>	2016-07-15	40 TWh/y	Planned: <a href="#">Link to info on Have-Your-Say portal</a>
Industrial fans	X		<a href="#">Regulation (EU) 327/2011</a>	2015-04-26	10 Twh/y	Cons. Forum/ISC
Circulators	X		<a href="#">Regulation (EC) 641/2009</a>	2017-01-01	4-8 TWh/y	Call for Evidence
External power supplies	X		<a href="#">Regulation (EU) 2019/1782</a>	2022-11-14		Planned: <a href="#">Link to info on Have-Your-Say portal</a>
Computers	X	*	<a href="#">Regulation (EU) 617/2013</a>	2017-01-17		Planned: <a href="#">Link to info on Have-Your-Say portal</a>  *(New EL: <a href="#">Link to info on Have-Your-Say portal</a> )
Simple set-top boxes	X		<a href="#">Regulation (EU) 107/2009</a>	2014-2-25		Repeal to be considered following consultation with the Consultation Forum
Tyres		X <sup>28</sup>	<a href="#">Regulation (EU) 2020/740</a>	2025-06-01		To be initiated. Should ideally be advanced (see section 7)
<b>Other reviews</b>						
Servers and data storage products	X		<a href="#">Regulation (EU) 2019/424</a>	2022-03-31	n.a.	To be initiated
Horizontal: energy labelling framework legislation		X	<a href="#">Regulation (EU) 2017/1369</a>	2025-08-02		To be initiated
Welding equipment	X		<a href="#">Regulation (EU) 2019/1784</a>	2024-11-14	n.a.	To be initiated
Power transformers	X		<a href="#">Regulation (EU) 548/2014</a>	2023-07-01	n.a.	To be initiated

<sup>28</sup> Adopted by Council and Parliament through ordinary legislative procedure

Electric motors + var. speed drives	X			<a href="#">Regulation (EU) 2019/1781</a>	2023-11-14	10-20 TWh/y ?	To be initiated
Professional refrigeration equipment	X			<a href="#">Regulation (EU) 2015/1095</a>	2020-05-25	n.a.	Planned: <a href="#">Link to info on Have-Your-Say portal</a>
		X		<a href="#">Regulation (EU) 2015/1094</a>	2020-05-25	n.a.	Planned: <a href="#">Link to info on Have-Your-Say portal</a>
TVs/Electronic displays	X			<a href="#">Regulation (EU) 2019/2021</a>	2022-12-25		To be initiated
		X		<a href="#">Regulation (EU) 2019/2013</a>	2022-12-25		To be initiated
Light sources and (only for ecodesign) separate control gears	X			<a href="#">Regulation (EU) 2019/2020</a>	2024-12-25	n.a. <sup>29</sup>	To be initiated
		X		<a href="#">Regulation (EU) 2019/2015</a>	2024-12-25	n.a.	To be initiated
Household dishwashers	X			<a href="#">Regulation (EU) 2019/2022</a>	2025-12-25		To be initiated
		X		<a href="#">Regulation (EU) 2019/2017</a>	2025-12-25		To be initiated
Household washing machines + washer-dryers	X			<a href="#">Regulation (EU) 2019/2023</a>	2025-12-25		To be initiated
		X		<a href="#">Regulation (EU) 2019/2014</a>	2025-12-25		To be initiated
Refrigerating appliances (including Household fridges and freezers)	X			<a href="#">Regulation (EU) 2019/2019</a>	2025-12-25	n.a.	To be initiated
		X		<a href="#">Regulation (EU) 2019/2016</a>	2021-01-01 2025-12-25	n.a.	To be initiated
Refrigerating appliances w. a sales function	X			<a href="#">Regulation (EU) 2019/2024</a>	2023-12-25	n.a.	To be initiated
		X		<a href="#">Regulation (EU) 2019/2018</a>	2023-12-25	n.a.	To be initiated
		X		<a href="#">Regulation (EU) 2015/1187</a>	2022-01-01 2025-08-02	0.6 TWh/y	To be initiated
Imaging equipment			X	<a href="#">COM (2013) 23</a>	n.a.		See section 6
Game consoles			X	<a href="#">COM(2015) 178</a>	n.a.		
<b>Total: 31 specific product groups ,excl. standby</b>	<b>29</b>	<b>15</b>	<b>2</b>	<b>50</b>	<b>38</b>		

<sup>29</sup> The review will have a focus on quality of the light sources and circularity aspects, as listed in Article 9