

OCAD3E

Waste Electrical and Electronic Equipment Authorised Coordinator
Agency



Technical report

Application of environmental contribution modulation criteria

17/04/2015

Supersedes any previous version

Context:

The specifications document relating to the accreditation of WEEE take-back systems stipulates that "*The scale of contributions collected by the licensee from its member producers is, for similar household electrical and electronic equipment, modulated on the basis of environmental criteria linked with the end of life of the equipment and not giving rise to a transfer of pollution to another stage of the equipment life-cycle. These modulation criteria are linked with the suitability for repair and reuse, depollution, suitability for recycling of the household electrical and electronic equipment or, insofar as it is possible to establish a link with waste production prevention, the lifetime of the household electrical and electronic equipment.*"

The purpose of this technical report issued by WEEE take-back systems, following a consultation process involving, in particular, Electrical and Electronic Equipment associations, environmental protection associations, the French Ministry of the Environment and ADEME, is to provide the specifications required in order to assist Electrical and Electronic Equipment producers concerned by contribution modulation in clarifying their obligations.

The final version of this report was approved by the French Ministry of the Environment and the French Agency for the Environment and Energy Management (ADEME) prior to issue.

Applicable general rules:

In their annual statements of quantities of EEE put on the market, producers shall undertake to furnish via the reporting tool of their take-back system (check-box system):

- a. The statement of accuracy signed by a duly authorised legal representative of the company, their chartered accountant or their external auditor.
- b. The list in electronic format of the catalogue references, by category in accordance with annex 1 of the directive 2012/19/EC and by type of products concerned as described in this technical report, in compliance with the modulation criteria (i.e. list of products according to the criteria hereinafter).
Upon request by the take-back system or in the course of audits of quantities put on the market.
- c. For the products concerned by the criteria, at the producer's expense:
 - Supporting documentation of the classification of the product according to eco-modulation criteria (see the supporting documentation required according to the criteria and products concerned hereinafter),
 - One of the products subject to eco-design reporting for the purposes of a physical inspection, destructive testing if necessary, in the event of the producer being unable to furnish the required supporting documentation.

Upon request by the take-back systems or in the course of audits of quantities put on the market.

Failure to comply with this undertaking, in the event of inspection and observation of non-conformity with respect to the requirements defined above, shall lead to collection proceedings of the unreported eco-contribution amounts plus customary legal interest for late payment in accordance with the take-back systems specifications document.

Failing documentation supporting the conformity of an item of equipment with respect to the modulation criteria applicable thereto, as stipulated in this report, the equipment must always be reported under the least favourable scale.

A reminder of the modulation criteria and ranges applied is given below:

Equipment in question	Contribution modulation criteria	Contribution modulation	Criteria application rules
Refrigerator/ freezer	<p>Presence of refrigerant with GWP>15</p> <hr/> <p><u>or</u> Failure to provide technical documentation for electrically authorised repairers</p> <hr/> <p><u>or</u> Unavailability of essential spare parts for equipment use</p>	+ 20 %	If one (or more) of the 3 criteria applies/apply to the EEE, the contribution is increased by +20%
Washing machine	<p>Provision of essential parts for equipment use for 11 years</p> <hr/> <p><u>or</u> Incorporation of post-consumer recycled plastic (minimum threshold of 10%)</p>	- 20 %	If the EEE meets one of the 2 criteria or both, the contribution is reduced by -20%
Dishwasher	<p>Provision of essential parts for equipment use for 11 years</p> <hr/> <p><u>or</u> Incorporation of post-consumer recycled plastic (minimum threshold of 10%)</p>	- 20 %	If the EEE meets one of the 2 criteria or both, the contribution is reduced by -20%
Vacuum cleaner	<p>Presence of plastic parts > 25 grams containing brominated flame retardants</p> <hr/> <p><u>or</u> Failure to provide technical documentation for electrically authorised repairers</p> <hr/> <p><u>or</u> Unavailability of essential spare parts for equipment use</p>	+ 20 %	If one (or more) of the 3 criteria applies/apply to the EEE, the contribution is increased by +20%
Coffee maker / kettle / tea maker	<p>Provision of essential parts for equipment use for 5 years</p> <hr/> <p><u>and</u> Provision of technical documentation for electrically authorised repairers</p>	- 20 %	If the EEE <u>simultaneously</u> meets both criteria, the contribution is reduced by -20%
Computer (desktop or laptop)	<p>Absence of paint and coatings incompatible with recycling and reuse on plastic parts >100g,</p> <hr/> <p><u>and</u> Incorporation of post-consumer recycled plastic (minimum threshold of 10%)</p> <hr/> <p><u>and</u> Product upgrade with standard tools, including memory drives, chips and cards</p>	- 20 %	If the EEE <u>simultaneously</u> meets the 3 criteria, the contribution is reduced by -20%
Tablet	<p>Presence of plastic parts > 25g containing brominated flame retardants</p> <hr/> <p><u>or</u> Lack of mutually compatible software updates, essential for the basic use of the device</p>	+ 100 %	If one (or both) of the criteria applies/apply to the EEE, the contribution is increased by +100%
Printer	<p>Complete disassembly capability with commercially available standard tools</p>	- 20 %	If the EEE <u>simultaneously</u> meets

	and Provision of essential parts for equipment use for 5 years		both criteria, the contribution is reduced by -20%
Telephone	Lack of standardised connections (charger and other connections) <u>or</u> Lack of mutually compatible software updates, essential for the basic use of the device	+ 100 %	If one (or both) of the criteria applies/apply to the EEE, the contribution is increased by +100%
Televisions	Provision of technical documentation for electrically authorised repairers and essential parts for equipment use (electronic boards) for 5 years <u>or</u> Incorporation of post-consumer recycled plastic (minimum threshold of 10%)	- 20 %	If the EEE meets one of the 2 criteria or both, the contribution is reduced by -20%
Lamp	LED sources only	-20%	The contribution is reduced by -20% if the criterion is met
Electric drill / screwdriver	Failure to provide technical documentation for electrically authorised repairers <u>or</u> Unavailability of essential spare parts for equipment use	+ 20 %	If one (or both) of the criteria applies/apply to the EEE, the contribution is increased by +20%
Game console	Failure to provide technical documentation for electrically authorised repairers <u>or</u> Unavailability of essential spare parts for equipment use <u>or</u> Presence of brominated flame retardants in plastic body of equipment	+ 20 %	If one (or more) of the 3 criteria applies/apply to the EEE, the contribution is increased by +20%

REFRIGERATORS, FREEZERS

Combined appliances are included in the scope.

If one (or more) of the following 3 criteria applies/apply to the EEE, the contribution is increased by **+20%**.

❖ ***CRITERION No. 1: Presence of refrigerant with GWP > 15***

GWP (Global Warming Potential) values are defined by the IPCC (Intergovernmental Panel on Climate Change) in its report "Working Group I Fourth Assessment Report 'The Physical Science Basis'" (Note: chapter 2, paragraph 2.10.2 of the document: <http://www.ipcc-wg1.unibe.ch/publications/wg1-ar4/wg1-ar4.html>). These are direct GWP values based on a time horizon of 100 years. Failing IPCC data on hydrocarbons such as isobutane, propane, etc., the GWP values of these fluids are considered to be less than 15. The fluids concerned are not only those contained in the refrigerant circuit, but also those contained in foam insulation.

❖ ***Supporting documentation to be furnished on request during inspections:***

- ✓ Technical data sheet of the appliance including the type of gases used.

❖ ***CRITERION No. 2: Failure to provide technical documentation for electrically authorised repairers***

Modulation is charged if the producer does not make the technical documentation available. The technical documentation for electrically authorised repairers may be provided online or via any other medium. It includes, at least, in French, **an exploded view of the equipment along with an exhaustive list of the equipment components**.

❖ ***Supporting documentation to be furnished on request during inspections:***

- ✓ Internet link (and codes if required) to access the document corresponding to the reported reference.

❖ ***CRITERION No. 3: Failure to provide essential spare parts for equipment use***

Modulation is charged if the producer makes no commitments in respect of providing essential spare parts for equipment use. Article L111-3 of the French Consumer Code stipulates that "*the manufacturer or importer of movable goods shall inform the professional seller of the period during which or the date up to which spare parts essential to the use of the goods are available on the market. [...] Insofar as it has provided the period or the date mentioned in the first paragraph, the manufacturer or importer shall ensure the supply, within a period of two months, to those professional sellers or repairers, whether they are authorised or not, requesting spare parts essential to the use of the goods sold.*" Decree No. 2014-1482 dated 9 December 2014 specifies that "*the information [...] must appear in any commercial document or any durable medium accompanying the sale of movable goods*".

❖ ***Supporting documentation to be furnished on request during inspections:***

- ✓ Copy of a commercial document or durable medium accompanying the sale mentioning, for the reported reference, the period during which and the date up to which spare parts essential to the use of the good are available.
-

WASHING MACHINE, DISHWASHER

Clothes dryers and combined appliances are excluded from the scope.

If the EEE meets one of the 2 criteria or both, the contribution is reduced by -20%.

❖ ***CRITERION No. 1: Provision of essential parts for equipment use for at least 11 years***

Article L111-3 of the French Consumer Code stipulates that "the manufacturer or importer of movable goods shall inform the professional seller of the period during which or the date up to which spare parts essential to the use of the goods are available on the market. [...] Insofar as it has provided the period or the date mentioned in the first paragraph, the manufacturer or importer **shall ensure the supply**, within a period of two months, to those professional sellers or repairers, whether they are authorised or not, requesting **spare parts essential to the use of the goods sold**." Decree No. 2014-1482 dated 9 December 2014 specifies that "the information [...] must appear in any commercial document or any durable medium accompanying the sale of movable goods".

❖ ***Supporting documentation to be furnished on request during inspections:***

- ✓ Copy of a commercial document or durable medium accompanying the sale mentioning, for the reported reference, the period during which and the date up to which spare parts essential to the use of the good are available.

❖ ***CRITERION No. 2: Incorporation of post-consumer recycled plastic (minimum threshold of 10%)***

Post-consumer recycled plastic: plastic recycled from waste generated by end users of products. In opposition to "pre-consumer recycled plastic": plastic recycled from waste generated by a production process (production scraps, rejects). All the plastic parts included in the product are taken into account in the calculation of the total mass of plastics excluding printed circuit boards. The **post-consumer** recycled plastic content must be greater than or equal to 10%.

Calculation formula:

% post-consumer recycled plastic in equipment

$$= \frac{\sum_i \text{Mass of plastic in part (i)} \times \% \text{ post-consumer recycled plastic in plastic of part (i)}}{\text{Total mass of plastic in equipment}}$$

❖ ***Supporting documentation to be furnished on request during inspections:***

- ✓ Statement of the list of plastic parts contained in the appliance and their weight, specifying parts containing post-consumer recycled plastic and their manufacturer(s).
 - ✓ For each plastic part incorporating post-consumer recycled plastic, documents, in French or English, ensuring full traceability:
 - Statement by the manufacturer of the part specifying its recycled plastic content,
 - Official copy of the recycled plastic purchasing contract placed by the manufacturer of the part for its procurement, making it possible to identify the post-consumer recycled source of the material.
 - ✓ Internal traceability procedure(s) of the equipment producer making it possible to guarantee the presence of the parts identified as containing recycled plastic in the reported references.
-

VACUUM CLEANERS

If one (or more) of the following 3 criteria applies/apply to the EEE, the contribution is increased by **+20%**.

❖ *CRITERION No. 1: Presence of plastic parts > 25 grams containing brominated flame retardants*

All homogeneous parts weighing more than 25 grams are concerned (bodies, housings, structural parts), with the exception of the following exclusions: printed circuits, cables. In line with Annex II of the "RoHS" Directive 2011/65/EU, **brominated flame retardants (BFR) are taken into account if their concentration is greater than 0.1% by weight of the homogeneous plastic part in question. All BFRs are concerned** (and not only those mentioned by the RoHS directive).

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ List of plastic parts concerned.
- ✓ Technical supporting document of the absence of brominated flame retardants over the threshold set (supplier certificate including the quantity and the chemical composition of the flame retardants used).

❖ *CRITERION No. 2: Failure to provide technical documentation for electrically authorised repairers*

Modulation is charged if the producer does not make the technical documentation available. The technical documentation for electrically authorised repairers may be provided online or via any other medium. It includes, at least, in French, **an exploded view of the equipment along with an exhaustive list of the equipment components**.

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Internet link (and codes if required) to access the document corresponding to the reported reference.

❖ *CRITERION No. 3: Failure to provide essential spare parts for equipment use*

Modulation is charged if the producer makes no commitments in respect of providing essential spare parts for equipment use. Article L111-3 of the French Consumer Code stipulates that "*the manufacturer or importer of movable goods shall inform the professional seller of the period during which or the date up to which spare parts essential to the use of the goods are available on the market. [...] Insofar as it has provided the period or the date mentioned in the first paragraph, the manufacturer or importer shall ensure the supply, within a period of two months, to those professional sellers or repairers, whether they are authorised or not, requesting spare parts essential to the use of the goods sold.*" Decree No. 2014-1482 dated 9 December 2014 specifies that "*the information [...] must appear in any commercial document or any durable medium accompanying the sale of movable goods*".

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Copy of a commercial document or durable medium accompanying the sale mentioning, for the reported reference, the period during which and the date up to which spare parts essential to the use of the good are available.
-

COFFEE MAKERS, KETTLES, TEA MAKERS

If the EEE simultaneously meets both criteria, the contribution is reduced by -20%.

❖ *CRITERION No. 1: Provision of essential parts for equipment use for at least 5 years*

Article L111-3 of the French Consumer Code stipulates that "the manufacturer or importer of movable goods shall inform the professional seller of the period during which or the date up to which spare parts essential to the use of the goods are available on the market. [...] Insofar as it has provided the period or the date mentioned in the first paragraph, the manufacturer or importer **shall ensure the supply**, within a period of two months, to those professional sellers or repairers, whether they are authorised or not, requesting **spare parts essential to the use of the goods sold**." Decree No. 2014-1482 dated 9 December 2014 specifies that "*the information [...] must appear in any commercial document or any durable medium accompanying the sale of movable goods*".

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Copy of a commercial document or durable medium accompanying the sale mentioning, for the reported reference, the period during which and the date up to which spare parts essential to the use of the good are available.

❖ *CRITERION No. 2: Provision of technical documentation for electrically authorised repairers*

The technical documentation for electrically authorised repairers may be provided online or via any other medium. It includes, at least, in French, **an exploded view of the equipment along with an exhaustive list of the equipment components**.

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Internet link (and codes if required) to access the document corresponding to the reported reference.
-

COMPUTERS (DESKTOPS AND LAPTOPS)

If the EEE simultaneously meets the 3 criteria, the contribution is reduced by -20%.

❖ *CRITERION No. 1: Absence of paint and coatings incompatible with recycling and reuse on plastic parts > 100 grams*

The product must not contain paint or coatings on plastic parts of more than 100 grams which are not compatible with recycling and reuse.

In accordance with the IEEE 1680.1 standard, paint or a coating on a plastic part is incompatible with recycling or reuse when, **after recycling**, the difference in IZOD notched impact strength at ambient temperature (ASTM D256 standard) between the painted/coated plastic and the unpainted/coated plastic does not exceed 25%.

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Proof of issue of the EPEAT ecolabel on this criterion and supporting documentation used to validate this criterion:
 - Statement of the list of plastic parts contained in the appliance and their weight, specifying painted or coated plastic parts,
 - For each painted or coated plastic part > 100g:
 - Technical procedure describing the method used to conduct the simulation of a recycling process (shredding and granulation) on a painted/coated part sample and an unpainted/coated part sample,
 - Technical procedure describing the methodology used to conduct the IZOD notched impact test under the conditions defined by the ASTM D256 standard on both samples,
 - Results of the tests for both samples.
- ✓ Or: demonstration of compliance with the criterion with supporting documents equivalent to those cited above.

❖ *CRITERION No. 2: Incorporation of post-consumer recycled plastic (minimum threshold of 10%)*

Post-consumer recycled plastic: plastic recycled from waste generated by end users of products. In opposition to "pre-consumer recycled plastic": plastic recycled from waste generated by a production process (production scraps, rejects). All the plastic parts included in the product are taken into account in the calculation of the total mass of plastics excluding printed circuit boards. The **post-consumer** recycled plastic content must be greater than or equal to 10%.

Calculation formula:

% post-consumer recycled plastic in equipment

$$= \frac{\sum_i \text{Mass of plastic in part (i)} \times \% \text{ post-consumer recycled plastic in plastic of part (i)}}{\text{Total mass of plastic in equipment}}$$

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Proof of issue of the EPEAT ecolabel on this criterion with a minimum post-consumer recycled plastic
-

content of 10% and supporting documentation used to validate this criterion:

- Statement of the list of plastic parts contained in the appliance and their weight, specifying parts containing post-consumer recycled plastic and their manufacturer(s),
 - For each plastic part incorporating post-consumer recycled plastic, documents ensuring full traceability:
 - Statement by the manufacturer of the part specifying its recycled plastic content,
 - Official copy of the recycled plastic purchasing contract placed by the manufacturer of the part for its procurement, making it possible to identify the post-consumer recycled source of the material.
 - Internal traceability procedure(s) of the equipment producer making it possible to guarantee the presence of the parts identified as containing recycled plastic in the reported references.
- ✓ Or: demonstration of compliance with the criterion with supporting documents equivalent to those cited above.

❖ *CRITERION No. 3: Product upgrade with standard tools, including memory drives, chips and cards*

The following components contained in the product must be capable of being replaced or upgraded with commercially available standard tools:

- RAM
- hard drive
- reading / burning devices (CD, DVD, Blu-Ray)
- electronic boards and cards (motherboard, graphics card, audio card)
- processor
- operating system, BIOS, drivers

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Proof of issue of the EPEAT ecolabel on this criterion and supporting documentation used to validate this criterion:
- List of parts contained in the device subject to the upgrade requirement,
 - List of commercially available standard tools required to remove the components in place and install new components,
 - Disassembly and reassembly instructions demonstrating how the components can be replaced with commercially available standard tools,
 - List of upgrade possibilities via USB or IEEE 1394 ports of components in question.
- ✓ Or: demonstration of compliance with the criterion with supporting documents equivalent to those cited above.
-

TABLETS

If one (or both) of the criteria applies/apply to the EEE, the contribution is increased by **+100%**.

❖ *CRITERION No. 1: Presence of plastic parts containing brominated flame retardants*

Homogeneous parts are concerned (bodies, structural parts), with the exception of the following exclusions: printed circuits, cables. In line with Annex II of the "RoHS" Directive 2011/65/EU, **brominated flame retardants (BFR) are taken into account if their concentration is greater than 0.1% by weight of the homogeneous plastic part in question. All BFRs are concerned** (and not only those mentioned by the RoHS directive).

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ List of plastic parts concerned.
- ✓ Technical supporting document of the absence of brominated flame retardants over the threshold set (supplier certificate including the quantity and the chemical composition of the flame retardants used, producer specifications document for suppliers of the plastic parts concerned).

❖ *CRITERION No. 2: Lack of mutually compatible software updates, essential for the basic use of the device*

Modulation is charged if the essential updates for the operation of the device are not available. The software updates concerned are those ensuring full usage and performance of the equipment: operating system, applications for the equipment's essential functions present at the time of purchase (connectivity, navigation, multimedia content, etc.).

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ The producer undertakes to:
 - Furnish the essential updates for full usage of the equipment's functions present at the time of purchase,
 - Avoid any update impeding full use of these functions and the performance of the equipment,
 - Keep the latest software version compatible with the capabilities of the equipment.
 - ✓ Provision of information proving that this undertaking has been met for the equipment in question during market launch reporting audits conducted in subsequent years.
-

PRINTERS

Multifunction devices are included in the scope. 3D printers are excluded.

If the EEE simultaneously meets both criteria, the contribution is reduced by -20%.

❖ ***CRITERION No. 1: Complete disassembly capability with commercially available standard tools***

The product must be suitable for disassembly entirely with commercially available standard tools.

❖ ***Supporting documentation to be furnished on request during inspections:***

- ✓ Proof of issue of the Blue Angel ecolabel on this criterion and supporting documentation used to validate this criterion:
 - List of commercially available standard tools required to completely dismantle the product,
 - Instructions for carrying out the complete disassembly of the product with commercially available standard tools.
- ✓ Or: demonstration of compliance with the criterion with supporting documents equivalent to those cited above.

❖ ***CRITERION No. 2: Provision of essential parts for equipment use for at least 5 years***

Article L111-3 of the French Consumer Code stipulates that "the manufacturer or importer of movable goods shall inform the professional seller of the period during which or the date up to which spare parts essential to the use of the goods are available on the market. [...] Insofar as it has provided the period or the date mentioned in the first paragraph, the manufacturer or importer **shall ensure the supply**, within a period of two months, to those professional sellers or repairers, whether they are authorised or not, requesting **spare parts essential to the use of the goods sold**." Decree No. 2014-1482 dated 9 December 2014 specifies that "*the information [...] must appear in any commercial document or any durable medium accompanying the sale of movable goods*".

❖ ***Supporting documentation to be furnished on request during inspections:***

- ✓ For printers intended for household use: copy of a commercial document or durable medium accompanying the sale mentioning, for the reported reference, the period during which and the date up to which spare parts essential to the use of the good are available.
 - ✓ For printers intended for business use: proof of issue of the Blue Angel ecolabel on this criterion and supporting documentation used to validate this criterion.
-

MOBILE TELEPHONES, SMARTPHONES

If one (or both) of the criteria applies/apply to the EEE, the contribution is increased by **+100%**.

❖ *CRITERION No. 1: Lack of standardised connections (charger and other connections)*

The charging and data exchange connections comply with the UCS (Universal Charging Solution) standard and use a micro-USB interface.

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Technical data sheet of the device specifying the presence of micro-USB connections and UCS standard compliance.
-

❖ *CRITERION No. 2: Lack of mutually compatible software updates, essential for the basic operation of the device*

Modulation is charged if the essential updates for the operation of the device are not available. The software updates concerned are those ensuring full usage and performance of the equipment: operating system, applications for the equipment's essential functions present at the time of purchase (connectivity, navigation, multimedia, etc.).

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ The producer undertakes to:
 - Furnish the essential updates for full usage of the equipment's functions present at the time of purchase,
 - Avoid any update impeding full use of these functions and the performance of the equipment,
 - Keep the latest software version compatible with the capabilities of the equipment.
 - ✓ Provision of information proving that this undertaking has been met for the equipment in question during audits of quantities put on the market conducted in subsequent years.
-

TELEVISIONS

If the EEE meets one of the 2 criteria or both, the contribution is reduced by -20%.

❖ *CRITERION No. 1: Provision of essential parts for equipment use for at least 5 years and provision of technical documentation for electrically authorised repairers*

Article L111-3 of the French Consumer Code stipulates that "the manufacturer or importer of movable goods shall inform the professional seller of the period during which or the date up to which spare parts essential to the use of the goods are available on the market. [...] Insofar as it has provided the period or the date mentioned in the first paragraph, the manufacturer or importer **shall ensure the supply**, within a period of two months, to those professional sellers or repairers, whether they are authorised or not, requesting **spare parts essential to the use of the goods sold**." Decree No. 2014-1482 dated 9 December 2014 specifies that "*the information [...] must appear in any commercial document or any durable medium accompanying the sale of movable goods*".

The technical documentation for electrically authorised repairers may be provided online or via any other medium. It includes, at least, in French, **an exploded view of the equipment along with an exhaustive list of the equipment components**.

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Copy of a commercial document or durable medium accompanying the sale mentioning, for the reported reference, the period during which and the date up to which spare parts essential to the use of the good are available.
- ✓ Internet link (and codes if required) to access the document corresponding to the reported reference.

❖ *CRITERION No. 2: Incorporation of post-consumer recycled plastic (minimum threshold of 10%)*

Post-consumer recycled plastic: plastic recycled from waste generated by end users of products. In opposition to "pre-consumer recycled plastic": plastic recycled from waste generated by a production process (production scraps, rejects). All the plastic parts included in the product are taken into account in the calculation of the total mass of plastics excluding printed circuit boards. The **post-consumer** recycled plastic content must be greater than or equal to 10%.

Calculation formula:

% post-consumer recycled plastic in equipment

$$= \frac{\sum_i \text{Mass of plastic in part (i)} \times \% \text{ post-consumer recycled plastic in plastic of part (i)}}{\text{Total mass of plastic in equipment}}$$

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Statement of the list of plastic parts contained in the appliance and their weight, specifying parts containing post-consumer recycled plastic and their manufacturer(s).
 - ✓ For each plastic part incorporating post-consumer recycled plastic, documents ensuring full traceability:
-

-
- Statement by the manufacturer of the part specifying its recycled plastic content,
 - Official copy of the recycled plastic purchasing contract placed by the manufacturer of the part for its procurement, making it possible to identify the post-consumer recycled source of the material.
 - ✓ Internal traceability procedure(s) of the equipment producer making it possible to guarantee the presence of the parts identified as containing recycled plastic in the reported references.
-

LAMPS

The contribution is reduced by -20% if the criterion is met.

❖ *CRITERION No. 1: LED technology light source*

The operation of the equipment is based solely on LED technology.

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Type of technology used in the equipment.
-

ELECTRIC DRILLS, SCREWDRIVERS

If one (or both) of the criteria applies/apply to the EEE, the contribution is increased by **+20%**.

❖ *CRITERION No. 1: Failure to provide technical documentation for electrically authorised repairers*

Modulation is charged if the producer does not make the technical documentation available. The technical documentation for electrically authorised repairers may be provided online or via any other medium. It includes, at least, in French, **an exploded view of the equipment along with an exhaustive list of the equipment components**.

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Internet link (and codes if required) to access the document corresponding to the reported reference.

❖ *CRITERION No. 2: Failure to provide essential spare parts for equipment use*

Modulation is charged if the producer makes no commitments in respect of providing essential spare parts for equipment use.

Article L111-3 of the French Consumer Code stipulates that "*the manufacturer or importer of movable goods shall inform the professional seller of the period during which or the date up to which spare parts essential to the use of the goods are available on the market. [...] Insofar as it has provided the period or the date mentioned in the first paragraph, the manufacturer or importer shall ensure the supply, within a period of two months, to those professional sellers or repairers, whether they are authorised or not, requesting spare parts essential to the use of the goods sold.*" Decree No. 2014-1482 dated 9 December 2014 specifies that "*the information [...] must appear in any commercial document or any durable medium accompanying the sale of movable goods*".

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Copy of a commercial document or durable medium accompanying the sale mentioning, for the reported reference, the period during which and the date up to which spare parts essential to the use of the good are available.
-

GAME CONSOLES

If one (or more) of the following 3 criteria applies/apply to the EEE, the contribution is increased by **+20%**.

❖ ***CRITERION No. 1: Presence of plastic parts containing brominated flame retardants***

All homogeneous parts such as bodies or structural parts are concerned with the exception of printed circuits, cables. In line with Annex II of the "RoHS" Directive 2011/65/EU, **brominated flame retardants (BFR) are taken into account if their concentration is greater than 0.1% by weight of the homogeneous plastic part in question. All BFRs are concerned** (and not only those mentioned by the RoHS directive).

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ List of plastic parts concerned.
 - ✓ Technical supporting document of the absence of brominated flame retardants over the threshold set (supplier certificate including the quantity and the chemical composition of the flame retardants used).
-

❖ ***CRITERION No. 2: Failure to provide technical documentation for electrically authorised repairers***

Modulation is charged if the producer makes no commitments in respect of providing essential spare parts for equipment use. The technical documentation for electrically authorised repairers may be provided online or via any other medium. It includes, at least, in French, **an exploded view of the equipment along with an exhaustive list of the equipment components.**

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Internet link (and codes if required) to access the document corresponding to the reported reference.
-

❖ ***CRITERION No. 3: Failure to provide essential spare parts for equipment use***

Modulation is charged if the producer makes no commitments in respect of providing essential spare parts for equipment use. Article L111-3 of the French Consumer Code stipulates that "*the manufacturer or importer of movable goods shall inform the professional seller of the period during which or the date up to which spare parts essential to the use of the goods are available on the market. [...] Insofar as it has provided the period or the date mentioned in the first paragraph, the manufacturer or importer shall ensure the supply, within a period of two months, to those professional sellers or repairers, whether they are authorised or not, requesting spare parts essential to the use of the goods sold.*" Decree No. 2014-1482 dated 9 December 2014 specifies that "*the information [...] must appear in any commercial document or any durable medium accompanying the sale of movable goods*".

❖ *Supporting documentation to be furnished on request during inspections:*

- ✓ Copy of a commercial document or durable medium accompanying the sale mentioning, for the reported reference, the period during which and the date up to which spare parts essential to the use of the good are available.
-