



EPEAT: LIST OF CRITERIA

Computers and Displays (v 2018)

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3. Design for end of life
4. Product Longevity/lifecycle extension
5. Energy conservation
6. End-of-life management
7. Packaging
8. Life cycle assessment and carbon footprint
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2. Materials selection
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Product Ratings: EPEAT Bronze, Silver and Gold

The EPEAT system was developed to recognize three levels of environmental performance: EPEAT Bronze, Silver and Gold. This multi-tier rating recognizes the leading products and also provides Manufacturers with increased recognition and incentive for achieving higher levels of performance.

The product rating (B/S/G) is determined as follows:

- EPEAT Bronze rated products meet all the Required criteria
- EPEAT Silver rated products meet all the Required criteria and 50% of the Optional criteria
- EPEAT Gold rated products meet all the Required criteria plus 75% of the Optional criteria



PCs & DISPLAYS CRITERIA

1 Substance Management

Required Criteria

- 1.1 (Required) – Conformance with European Union RoHS Directive substance restrictions
- 1.2 (Required) – Elimination of intentionally added mercury in light sources
- 1.3 (Required) – Reduction of bromine and chlorine content in plastic parts > 25g
- 1.4 (Required) – Compliance with provisions of EU Battery Directive

Optional Criteria

- 1.5 (Optional) – Restriction on the use of cadmium
- 1.6 (Optional) – Restriction of the use of beryllium
- 1.7 (Optional) – Further reduction of bromine and chlorine content of plastic materials
- 1.8 (Optional) – Avoidance or elimination of substances on EU REACH Annex XIV (authorization list)
- 1.9 (Optional) – Reduction of substances on the EU REACH Candidate List of SVHCs
- 1.10 (Optional) – Chemical assessment and selection
- 1.11 (Optional) – IEC 62474 declarable substances
- 1.12 (Optional) – Requesting substance inventory
- 1.13 (Optional) – Acquiring substance inventory
- 1.14 (Optional) – Reduce fluorinated gas emissions from flat panel display manufacturing
- 1.15 (Optional) – Reduce fluorinated greenhouse gas emissions from semiconductor production

2 Materials selection

Required Criteria

- 2.1 (Required) – Minimum post-consumer recycled plastic, ITE-derived post-consumer recycled plastic or bio-based plastic content

Optional Criteria

- 2.2 (Optional) – Higher post-consumer recycled plastic, ITE-derived post-consumer recycled plastic, or bio-based plastic content



2.3 (Optional) – ITE derived post-consumer recycled plastic content

3 Design for end of life

Required Criteria

3.1 (Required) – Identification of materials and components requiring selective treatment

3.2 (Required) – Plastic parts compatible with recycling

3.3 (Required) – Plastic parts separable for recycling

4 Product Longevity/lifecycle extension

Required Criteria

4.1 (Required) – Service support

4.2 (Required) – Removal of external enclosure

4.3 (Required) – Spare parts

4.4 (Required) – Battery replacement and information

Optional Criteria

4.5 (Optional) – Long life rechargeable battery

4.6 (Optional) – Publicly available service information

4.7 (Optional) – Product upgradeability and reparability

4.8 (Optional) – Removal of lithium ion batteries

5 Energy conservation

Required Criteria

5.1 (Required) – Conformance to current ENERGY STAR® program requirements

5.2 (Required) – Lowest power mode limit

Optional Criteria

5.3 (Optional) – Energy efficiency for internal power supplies

5.4 (Optional) – Energy efficiency for external power supplies exceeding International External Power Supply Efficiency Level VI



5.5 (Optional) – Product energy consumption less than the ENERGY STAR® Maximum energy limit

6 End-of-life management

Required Criteria

6.1 (Required) – Provision of product take-back services

6.2 (Required) – Provision of a removable rechargeable battery take-back program

6.3 (Required) – End-of-life processing

7 Packaging

Required Criteria

7.1 (Required) – Elimination of intentionally added heavy metals in packaging

7.2 (Required) – Elimination of elemental chlorine as a bleaching agent in packaging material

7.3 (Required) – Separable packaging material

7.4 (Required) – Plastics marked in packaging materials

7.5 (Required) – Recycled content in wood-based fiber packaging

Optional Criteria

7.6 (Optional) – Packaging composed of recycled, and/or bio-based, and/or sustainably forested content

7.7 (Optional) – Offering of a bulk packaging option

8 Life cycle assessment and carbon footprint

Optional Criteria

8.1 (Optional) – Product life cycle assessment and public disclosure of analysis

8.2 (Optional) – Product specific greenhouse gas emissions – product carbon footprint

8.3 (Optional) – Corporate carbon footprint

8.4 (Optional) – Greenhouse gas emissions from product transport



9 Corporate environmental performance

Required Criteria

9.1 (Required) – Third party certified environmental management system (EMS) for design and manufacturing organizations

9.2 (Required) – Corporate environmental performance reporting by manufacturer

Optional Criteria

9.3 (Optional) – Third party certified environmental management system (EMS) for supplier manufacturing facilities

9.4 (Optional) – Corporate environmental performance reporting by suppliers

9.5 (Optional) – Energy management system/energy performance improvement – manufacturers

9.6 (Optional) – Energy management system/energy performance improvement for suppliers

9.7 (Optional) – Renewable energy use by manufacturer

9.8 (Optional) – Renewable energy use by manufacturer suppliers

10 Corporate social responsibility

Required Criteria

10.1 (Required) – Public disclosure regarding conflict minerals in products

Optional Criteria

10.2 (Optional) – Socially responsible supplier manufacturing: Labor

10.3 (Optional) – Socially responsible manufacturing: OHS

10.4 (Optional) – Participation in an in-region program that advances responsible sourcing of conflict minerals

10.5 (Optional) – Smelter and refiner participation in OECD-aligned third party mechanisms



IMAGING EQUIPMENT CRITERIA

1 Reduction/elimination of environmentally sensitive material

Required Criteria

- 1.1 (Required) – Compliance with provisions of European RoHS Directive
- 1.2 (Required) – Reporting on amount of mercury in light sources
- 1.3 (Required) – Compliance with provisions of EU Battery Directive
- 1.4 (Required) – Reducing BFR/CFR/PVC content of external plastic casings

Optional Criteria

- 1.5 (Optional) – Further reduction of the use of EU RoHS Directive hazardous substances (cadmium) O 1.6 Use of non-mercury containing light sources
- 1.7 (Optional) – Reduction of substances on the EU REACH Candidate List of SVHCs
- 1.8 (Optional) – Eliminating or reducing BFR/CFR content of printed circuit board laminates
- 1.9 (Optional) – Eliminating or reducing BFR/CFR/PVC content of product
- 1.10 (Optional) – Reduce fluorinated gas emissions resulting from flat panel display manufacturing
- 1.11 (Optional) – Inventory of intentionally added chemicals residing in the product

2 Materials selection

Required Criteria

- 2.1 (Required) – Declaration of postconsumer recycled plastic content
- 2.2 (Required) – Minimum content of postconsumer recycled plastic
- 2.3 (Required) – Declaration of biobased plastic materials content
- 2.4 (Required) – Declaration of product weight

Optional Criteria

- 2.5 (Optional) – Minimum 5% to 10% content of postconsumer recycled plastic
- 2.6 (Optional) – Minimum 25% content of postconsumer recycled plastic
- 2.7 (Optional) – Minimum content of biobased plastic material



3 Design for end of life

Required Criteria

- 3.1 (Required) – Ease of disassembly of product
- 3.2 (Required) – Use of single recyclable plastic type per plastic part
- 3.3 (Required) – Restriction on materials not compatible with reuse and recycling
- 3.4 (Required) – Manual separation and marking of plastics
- 3.5 (Required) – Notification regarding the identification of both materials and components that have hazardous characteristics or special handling needs
- 3.6 (Required) – Preparation of product end-of-life characterization report
- 3.7 (Required) – Minimum reusable/recyclable rate based on requirements of EU WEEE

Directive **Optional Criteria**

- 3.8 (Optional) – Ease of disassembly of consumer products
- 3.9 (Optional) – Minimum 90% reusable/recyclable

4 Product longevity/life cycle extension

Required Criteria

- 4.1 (Required) – Early failure process
- 4.2 (Required) – Spare parts

Optional Criteria

- 4.3 (Optional) – Product upgradeability

5 Energy conservation

Required Criteria

- 5.1 (Required) – ENERGY STAR®
- 5.2 (Required) – Standby power level $\leq 1W$ and disclosure

Optional Criteria



5.3 (Optional) – Product specific greenhouse gas emissions—life-cycle assessment

5.4 (Optional) – Product specific greenhouse gas emissions—third-party verification or making LCA assessment publicly available

5.5 (Optional) – Auto standby capability

5.6 (Optional) – Default to automatic duplex printing

6 End of life management

Required Criteria

6.1 (Required) – Provision of product take-back service

6.2 (Required) – End-of-life processing requirements

Optional Criteria

6.3 (Optional) – Provision of take-back service for broader scope of products

6.4 (Optional) – Certification of programs exempt from end-of-life processing requirements

7 Corporate performance

Required Criteria

7.1 (Required) – Self-declared environmental management system for design and manufacturing organizations

7.2 (Required) – Public disclosure of key environmental aspects

Optional Criteria

7.3 (Optional) – Third-party certified environmental management system for design and manufacturing organizations

7.4 (Optional) – Public disclosure of supply chain toxics

7.5 (Optional) – Product life-cycle assessment and public disclosure of analyses

8 Packaging

Required Criteria

8.1 (Required) – Elimination of intentionally added heavy metals in packaging



8.2 (Required) – Elimination of elemental chlorine as a bleaching agent in packaging material

8.3 (Required) – Separable packaging materials

8.4 (Required) – Plastics marked in packaging materials

8.5 (Required) – Recovered content in select fiber-based packaging materials

Optional Criteria

8.6 (Optional) – Packaging 90% compostable/recyclable

8.7 (Optional) – Provision of take-back service for packaging

9 Consumables

Required Criteria

9.1 (Required) – Allow use of general office paper with renewable content, recycled content, and that is chlorine free

9.2 (Required) – Allow use of non-manufacturer cartridges and non-manufacturer containers

9.3 (Required) – Provision of take-back and end-of-life management for cartridges and containers

9.4 (Required) – Documentation that the cartridge or container is not designed to prevent its reuse and recycling

Optional Criteria

9.5 (Optional) – Manufacturer recycles or reuses toner material collected through its cartridge and container take-back program

9.6 (Optional) – Manufacturer recycles or reuses plastics collected through its cartridge and container take-back program

10 Indoor air quality

Required Criteria

10.1 (Required) – Indoor air quality emissions requirements

TV - CRITERIA



1 Reduction of use of hazardous substances

Required Criteria

1.1 (Required) – Compliance with provisions of European Union (EU) RoHS Directive

1.2 (Required) – Reporting on amount of mercury in light sources

1.3 (Required) – Compliance with provisions of EU Battery Directive

Optional Criteria

1.4 (Optional) – Further reduction of the use of EU RoHS Directive hazardous substances (cadmium)

1.5 Use of non-mercury containing light sources

1.6 (Optional) – Further reduction of the use of EU RoHS Directive hazardous substances (lead)

1.7 (Optional) – Reduction of substances on the EU REACH Candidate List of SVHCs

1.8 (Optional) – Reducing BFR/CFR/PVC content of external plastic casings

1.9 (Optional) – Eliminating or reducing BFR/CFR content of printed circuit board laminates

1.10 (Optional) – Eliminating or reducing BFR/CFR/PVC content of product

1.11 (Optional) – Reduce fluorinated gas emissions resulting from flat panel display manufacturing

1.12 (Optional) – Inventory of intentionally added chemicals residing in the product

2 Materials selection

Required Criteria

2.1 (Required) – Declaration of postconsumer recycled plastic content

2.2 (Required) – Declaration of biobased plastic materials content

2.3 (Required) – Declaration of product weight

2.4 (Required) – Declaration of postconsumer recycled plastic content

2.5 (Required) – Declaration of biobased plastic materials content

2.6 (Required) – Declaration of product weight



Optional Criteria

2.7 (Optional) – Minimum 5% to 10% content of postconsumer recycled plastic

2.8 (Optional) – Minimum 25% content of postconsumer recycled plastic

2.9 (Optional) – Minimum content of biobased plastic material

3 Design for end of life

Required Criteria

3.1 (Required) – Ease of disassembly of product

3.2 (Required) – Plastic markings

3.3 (Required) – Restriction on materials not compatible with reuse and recycling

3.4 (Required) – Notification regarding and the identification of materials and components with special handling needs

3.5 (Required) – Minimum reusable/recyclable rate based on EU WEEE Directive

Optional Criteria

3.6 (Optional) – One recyclable plastic type per rigid plastic part > 25g

3.7 (Optional) – Manual separation of plastics for recycling

3.8 (Optional) – Molded/glued-in metal eliminated or removable

3.9 (Optional) – Marking provided on the product identifying items containing materials with special handling needs

3.10 (Optional) – Minimum 90% reusable/recyclable

3.11 (Optional) – Preparation of end-of-life characterization report

4 Product longevity/life cycle extension

Required Criteria

4.1 (Required) – Upgradeable firmware

4.2 (Required) – Service information readily available

4.3 (Required) – Early failure process

5 Energy conservation



Required Criteria

5.1 (Required) – Compliance with current ENERGY STAR® specification

*Hospital Grade TVs are exempt from compliance with the current ENERGY STAR® specification and instead must meet the previous ENERGY STAR® specification (Version 7.0) through September 1st, 2019. See GEC's announcement regarding [Hospital Grade TVs](#).

Optional Criteria

5.2 (Optional) – On Mode power performance exceeding ENERGY STAR®

5.3 (Optional) – Additional On Mode power performance exceeding ENERGY STAR®

5.4 (Optional) – Low standby power

5.5 (Optional) – Automatic switch to sleep mode

6 End of life management

Required Criteria

6.1 (Required) – Provision of product take-back service

6.2 (Required) – End-of-life processing requirements

Optional Criteria

6.3 (Optional) – Provision of take-back service for broader scope of products

6.4 (Optional) – Certification of programs exempt from end-of-life processing requirements

7 Corporate performance

Required Criteria

7.1 (Required) – Self-declared environmental management system for design and manufacturing organizations

7.2 (Required) – Public disclosure of key environmental aspects

Optional Criteria

7.3 (Optional) – Third-party certified environmental management system for design and manufacturing organizations

7.4 (Optional) – Public disclosure of supply chain toxics

7.5 (Optional) – Product life-cycle assessment and public disclosure of analyses



8 Packaging

Required Criteria

8.1 (Required) – Elimination of intentionally added heavy metals in packaging

8.2 (Required) – Elimination of elemental chlorine as a bleaching agent in packaging material

8.3 (Required) – Separable packaging materials

8.4 (Required) – Plastics marked in packaging materials

8.5 (Required) – Recovered content in select fiber-based packaging materials

Optional Criteria

8.6 (Optional) – Packaging 90% compostable/recyclable

8.7 (Optional) – Provision of take-back service for packaging



SERVERS CRITERIA

1 Energy efficiency

Required Criteria

- 1.1 (Required) – ENERGY STAR
- 1.2 (Required) – Allowable temperature and humidity specifications

Optional Criteria

- 1.3 (Optional) – Liquid cooled server or air cooled servers operable at ASHRAE Class A3/A4 Temperature Ranges
- 1.4 (Optional) – 80 plus program
- 1.5 (Optional) – Active state power management enablement
- 1.6 (Optional) – Server inactive power state #1
- 1.7 (Optional) – Server inactive power state #2
- 1.8 (Optional) – Energy efficient supply chains
- 1.9 (Optional) – Reduce energy lost from power conversion
- 1.10 (Optional) – Logged server activity metrics

2 Management of substances

Required Criteria

- 2.1 (Required) – Conformance with provisions of European Union RoHS Directive
- 2.2 (Required) – Conformance with substance restriction requirements of the European Union Battery Directive
- 2.3 (Required) – Reduction of Bromine and Chlorine content of plastic parts > 25 grams
- 2.4 (Required) – Conformance with supply chain communication provisions of European Union REACH Regulation

Optional Criteria

- 2.5 (Optional) – Further reduction of Bromine and Chlorine content of plastic parts > 25 grams
- 2.6 (Optional) – Reduction of substances on the European Union REACH Regulation Annex XIV (authorization list) and Candidate Substances of Very High Concern



- 2.7 (Optional) – Record of declarable substances
- 2.8 (Optional) – Disclosure of declarable substances
- 2.9 (Optional) – Requesting full substance inventory
- 2.10 (Optional) – Acquiring substance inventory
- 2.11 (Optional) – Improving substance selection
- 2.12 (Optional) – Making safer substance use hazard assessments publicly available
- 2.13 (Optional) – Mitigation and inventory of process fluorinated greenhouse gas emissions resulting from semiconductor manufacturing

3 Preferable materials use

Required Criteria

- 3.1 (Required) – Declaration of postconsumer recycled plastic content
- 3.2 (Required) – Minimum postconsumer recycled content in external enclosures

Optional Criteria

- 3.3 (Optional) – Postconsumer recycled plastic content
- 3.4 (Optional) – Postconsumer recycled content of rare earth elements in hard drive(s) in product
- 3.5 (Optional) – Opt out program to reduce surplus parts

4 Product packaging

Required Criteria

- 4.1 (Required) – Elimination of added heavy metals in packaging
- 4.2 (Required) – Restriction on the use of elemental chlorine as a bleaching agent in paper-based packaging material
- 4.3 (Required) – Enhancing recyclability of packaging materials
- 4.4 (Required) – Recycled fiber content in corrugated packaging

Optional Criteria

- 4.5 (Optional) – Restriction on the use of chlorine compounds in processing packaging materials
- 4.6 (Optional) – Higher recycled fiber content in corrugated packaging



4.7 (Optional) – Elimination of individual packaging for hardware and components

4.8 (Optional) – Bulk packaging

5 Design for repair, reuse and recycling

Required Criteria

5.1 (Required) – Design for repair, reuse and recycling

5.2 (Required) – Design for plastics recycling

5.3 (Required) – Product recyclability calculation and minimum 90% recyclability rate

5.4 (Required) – Information and reporting in preparation for reuse and recycling

Optional Criteria

5.5 (Optional) – Further design for plastics recycling

5.6 (Optional) – Further information and reporting in preparation for reuse and recycling

5.7 (Optional) – Product marked to identify components and materials requiring selective treatment

5.8 (Optional) – Information and reporting on disk drive magnet type and location

5.9 (Optional) – Functionality testing software tools

6 Product longevity

Require Criteria

6.1 (Required) – Replacement components availability

7 Responsible end-of-life management

Required Criteria

7.1 (Required) – Provision of product take-back service (corporate)

7.2 (Required) – End-of-life processing requirements (corporate)

7.3 (Required) – Trans-boundary movements (corporate)

Optional Criteria

7.4 (Optional) – Manufacturer take-back service for de-installed servers



7.5 (Optional) – Publicly available record of the reuse/recycling achievement

8 Corporate responsibility

Required Criteria

8.1 (Required) – Environmental management system (EMS) (corporate)

8.2 (Required) – Manufacturer conformance with occupational health and safety performance (corporate)

8.3 Required - Public disclosure of use of conflict materials in products (corporate)

Optional Criteria

8.4 (Optional) – Environmental management system (EMS) certification

8.5 (Optional) – Environmental and social responsibility reporting on nine suppliers

8.6 (Optional) – Environmental and social responsibility reporting on suppliers

8.7 (Optional) – Public reporting of toxics release data

8.8 (Optional) – Sourcing from validated conflict free smelters

8.9 (Optional) – Participation in in-region conflict-free sourcing program

8.10 (Optional) – Supply chain conformance to occupational health and safety performance standards

8.11 (Optional) – Certification to social responsibility performance standard

8.12 (Optional) – Conduct life cycle assessment

8.13 (Optional) – Public disclosure of LCA results

8.14 (Optional) – Environmental impact of product transportation



MOBILE PHONES

1 Supply Chain Management of Materials

Required Criteria

1.1 (Required) – Compliance with the European Union REACH Regulation

Optional Criteria

1.2 (Optional) – Reduction of European Union REACH Candidate SVHC Substances

1.3 (Optional) – Substitutions assessment

1.4 (Optional) – Requesting substance inventory

1.5 (Optional) – Receiving substance inventory

2 Sustainable Materials Use

Required Criteria

2.1 (Required) – Declaration of post-consumer recycled and biobased plastics content

Optional Criteria

2.2 (Optional) – Post-consumer recycled plastic and biobased plastic content in the mobile phone

2.3 (Optional) – Post-consumer recycled plastic and biobased plastic content in accessories

3 Substances of Concern

Required Criteria

3.1 (Required) – Compliance with the European Union RoHS Directive

3.2 (Required) – Restrictions of extractable nickel

3.3 (Required) – Restriction of cadmium and mercury in the mobile phone battery cell

3.4 (Required) – Restriction of substances in textile and leather

Optional Criteria

3.5 (Optional) – Restrictions of DEHP, DBP, and BBP product



3.6 (Optional) – Restriction of bromine and chlorine

4 Energy Use Requirements

Required Criteria

4.1 (Required) – Battery charger systems

4.2 (Required) – External power supply energy efficiency

Optional Criteria

4.3 (Optional) – Reduction of energy consumption of battery charging systems

4.4 (Optional) – Reduced maintenance mode power

5 End of Life Management

Required Criteria

5.1 (Required) – Take-back program

5.2 (Required) – Primary recyclers third party certified

5.3 (Required) – Battery removability/replacement by qualified repair service providers or authorized repair providers

5.4 (Required) – Ease of disassembling mobile phone

5.5 (Required) – Feature to erase user data from mobile phone

5.6 (Required) – Repair and refurbishment

5.7 (Required) – Availability of replacement parts

5.8 (Required) – Notification regarding and the identification of materials and components requiring selective treatment

Optional Criteria

5.9 (Optional) – Battery removability/replacement instructions

5.10 (Optional) – Battery removability/replacement without use of tools

5.11 (Optional) – Further ease of disassembling mobile phone

5.12 (Optional) – Further repair and refurbishment

6 Packaging



Required Criteria

- 6.1 (Required) – Separability and labeling of plastics in packaging
- 6.2 (Required) – Expanded polystyrene packaging (EPS) restriction
- 6.3 (Required) – Recycled content in fiber packaging
- 6.4 (Required) – Restriction of chlorine in packaging materials
- 6.5 (Required) – Heavy metal restriction in packaging

Optional Criteria

- 6.6 (Optional) – Use of recyclable fiber based packaging materials
- 6.7 (Optional) – Use of post-consumer recycled plastic packaging
- 6.8 (Optional) – Environmentally preferable paper/paperboard in POS packaging
- 6.9 (Optional) – Environmentally preferable paper/paperboard for printed content
- 6.10 (Optional) – Improve packaging efficiency

7 Corporate Sustainability

Required Criteria

- 7.1 (Required) – Corporate sustainability (CS) reporting

Optional Criteria

- 7.2 (Optional) – Corporate sustainability (CS) reporting in the supply chain
- 7.3 (Optional) – Third party assurance of corporate sustainability (CS) reporting

8 Life Cycle Assessment

Optional Criteria

- 8.1 (Optional) – Conducting a life cycle assessment
- 8.2 (Optional) – Product LCA third-party verification of making LCA publicly available



9. Supply Chain Impacts

Required Criteria

9.1 (Required) – Final assembly facilities environmental management system

9.2 (Required) – Conflict minerals public disclosure

Optional Criteria

9.3 (Optional) – Supplier responsibility

9.4 (Optional) – Supplier production facilities environmental management system

9.5 (Optional) – Reduce fluorinated gas emissions resulting from flat panel display manufacturing