

Department for Environment Food and Rural Affairs

### Laptop computers standards

| Date     | Version No. | Change  |
|----------|-------------|---|
| May 2008 | 1.0         | Introduction of Best Practice specifications  |
| May 2009 | 2.0         | Complete revision, including the introduction of Class Leader specifications and Award Criteria |

| IMPACT AREA                                  | MANDATORY   |
|--|---|
| Energy performance requirements              | The product meets the performance requirements of ENERGY STAR or equivalent                               |
| Parts: facilitating segregation and recovery | Parts that have to be treated separately are easily separable   |
| Parts: facilitating segregation and recovery | Plastic parts >100 g consist of one material or of easily separable materials                             |
| Parts: facilitating segregation and recovery | Plastic parts >25 g have material codes according to ISO 11469 referring to ISO 1043                      |
| Parts: facilitating segregation and recovery | Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools |
| Parts: facilitating segregation and recovery | Labels are easily separable. (This requirement does not apply to safety/regulatory labels)                |
| Prolonging useful life: Hardware upgrades    | Spare parts are available after end of production for 5 years   |
| Prolonging useful life: Hardware upgrades    | Upgrading of components can be done (e.g. with processor, memory, cards or drives)                        |
| Prolonging useful life: Hardware upgrades    | Upgrading can be done using commonly available tools  |
| Chemicals in                                 | Plastic parts >25 g are free from flame retardant   |

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|                         |  |
|-------------------------|--|
| components              | substances/preparations above 0.1% classified as R45/46, R50/51/53 and R60/61 (67/548/EEC) |
| Chemicals in components | Maximum mercury content per lamp of 3mg  |
| Packaging               | Product plastic packaging does not contain chlorine  |
| Documentation           | User and product documentation do not contain chlorine bleached paper                      |

| <b>IMPACT AREA</b>                           | <b>BEST PRACTICE</b>  |
|--|---|
| Parts: facilitating segregation and recovery | Same as the mandatory standard and all cover/housing plastic parts >25 g are halogen free |
| Energy performance requirements              | Same as the mandatory standard  |
| Chemicals in components                      | Same as the mandatory standard  |
| Prolonging useful life                       | Same as the mandatory standard  |
| Packaging                                    | Same as the mandatory standard  |
| Documentation                                | Same as the mandatory standard  |

| <b>IMPACT AREA</b>                  | <b>CLASS LEADER</b>  |
|-------------------------------------|--|
| Chemicals in components             | Same as the mandatory standard and light sources are free from mercury |
| Documentation                       | User and product documentation contain recycled paper                  |
| Energy performance requirements     | Same as the mandatory standard   |
| Parts: facilitating segregation and | Same as the best practice standard                                     |

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|                        |                                |
|------------------------|--------------------------------|
| recovery               |                                |
| Prolonging useful life | Same as the mandatory standard |
| Packaging              | Same as the mandatory standard |

Products awarded the ENERGY STAR label will be deemed to comply with Energy Star criteria. Appropriate means of proof for all Laptop Computers standards include a technical dossier of the manufacturer or a test report from a recognised body demonstrating that the criteria are met

### See also

- [EU-US ENERGY STAR](#)

See the European Commission's announcement that Energy Star criteria be used in central government procurement

### Laptop computers award criteria

| IMPACT AREA                                  | MINIMUM AWARD CRITERIA  |
|--|---|
| Parts: facilitating segregation and recovery | Plastic materials in covers/housing have surface coatings that are compatible with recycling or reuse, including metal coatings |
| Prolonging useful life: Hardware upgrades    | Servicing of products is available after end of production for 5 years  |
| Chemicals in components                      | Electrical cable insulation material of power cables are halogen free (including PVC)   |
| Chemicals in components                      | Electrical cable insulation material of signal cables are halogen free (including PVC)  |
| Chemicals in components                      | All cover/housing plastic parts >25 g are halogen free  |
| Chemicals in components                      | All printed circuit boards (without components) >25 g are halogen free  |
| Light  | Light sources are free from mercury   |
| Operational noise                            | Maximum A-weighted sound power level of < 4.0 LWAd (B) in the idle operating mode   |

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|                             |   |
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| emissions                   | The 'Declared A-weighted Sound Power Level' (re 1 pW) of PCs or notebooks, according to paragraph 3.2.5 of ISO 9296 and should be measured in accordance with ISO 7779  |
| Operational noise emissions | Maximum A-weighted sound power level of < 4.5 LWAd (B) when accessing a hard-disk drive<br>The 'Declared A-weighted Sound Power Level' (re 1 pW) of PCs or notebooks, according to paragraph 3.2.5 of ISO 9296 and should be measured in accordance with ISO 7779 |
| Documentation               | User and product documentation contain recycled paper   |

| <b>IMPACT AREA</b>                           | <b>BEST PRACTICE AWARD CRITERIA</b> |
|--|-------------------------------------|
| Parts: facilitating segregation and recovery | Same as the minimum award criteria  |
| Prolonging useful life                       | Same as the minimum award criteria  |
| Chemicals in components                      | Same as the minimum award criteria  |
| Light  | Same as the minimum award criteria  |
| Operational noise emissions                  | Same as the minimum award criteria  |
| Documentation                                | Same as the minimum award criteria  |

| <b>IMPACT AREA</b>                           | <b>CLASS LEADER AWARD CRITERIA</b> |
|--|------------------------------------|
| Parts: facilitating segregation and recovery | Same as the minimum award criteria |
| Prolonging useful life                       | Same as the minimum award criteria |
| Chemicals in components                      | Same as the minimum award criteria |
| Light  | Same as the minimum award criteria |

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|                             |                                    |
|-----------------------------|------------------------------------|
| Operational noise emissions | Same as the minimum award criteria |
| Documentation               | Same as the minimum award criteria |

Appropriate means of proof for all Laptop Computers award criteria include a technical dossier of the manufacturer or a test report from a recognised body demonstrating that the criteria are met