

Sustainable Public Procurement-fiche: basic

1) Subject matter

Environmental friendly personal computers.

“For <.....> (name of the public authority), the care for the environment and social aspects is important. It is stated in her <strategic policies>, <mission>, <vision>, <procurement policy>, ...”

Due to the cumbersome and incomplete definitions of the Energy Star Tier 2 criteria, valid from 1 January 2009 till 30 June 2009, the Energy Star criteria used in this document are those of version 4.0, Tier 1. Starting from the 1th of July 2009, Energy Star criteria version 5.0 criteria should be applied. (see www.energystar.gov for more details on the new version 5.0 criteria)

2) Exclusion criteria

Non compliance with environmental and social legislation, which has been the subject of a final judgment or a decision having equivalent effect, may be considered an offence concerning the professional conduct of the economic operator concerned or grave misconduct, permitting to exclude the party concerned from competing for the contract

Ref:

Art. 53 and 54 of Directive 2004/17/EC and Art. 45 of Directive 2004/18/EC

3) Technical capacity (not exclusive)

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4) Technical specifications

Energy consumption*

- All products must meet the latest ENERGY STAR standards for energy performance
 - Standby (Off Mode): ≤ 2.0 W
 - Sleep Mode: ≤ 2.7 W

* A new Energy Star version 5.0 will come into effect on July 1, 2009. See <http://www.energystar.gov> for more details.



- Idle State:
 - Category A: ≤ 50.0 W
 - Category B: ≤ 65.0 W
 - Category C: ≤ 95.0 W

Category A: All desktop computers that do not meet the definition of Category B

Category B: To qualify under Category B desktops must have:

- Multi-core processor(s) or greater than 1 discrete processor
- Minimum of 1 gigabyte of system memory

Category C: To qualify under Category C desktops must have:

- Multi-core processor(s) or greater than 1 discrete processor
- A GPU with greater than 128 megabytes of dedicated, non-shared memory.

In addition to the requirements above, models qualifying under Category C must be configured with a minimum of 2 of the following 3 characteristics:

- Minimum of 2 gigabytes of system memory
 - TV tuner and/or video capture capability with high definition support
 - Minimum of 2 hard disk drives.
- Sleep mode correlates to ACPI System Level S3 (suspend to RAM) state, where applicable. Standby correlates to ACPI Level S4 or S5 states, where applicable or when the power consumption level is in the lowest power mode which cannot be switched off (influenced) by the user and that may persist for an indefinite time when the appliance is connected to the main electricity supply and used in accordance with the manufacturer's instructions. [EU toolkit: core]
 - If wake On LAN (WOL) enabled
 - + 0.7 W for Sleep
 - + 0.7 W for Standby
 - Computers Using an Internal Power Supply: 80% minimum efficiency at 20%, 50%, and 100% of rated output and Power Factor > 0.9 at 100% of rated output.
 - Products must be shipped with the display's Sleep mode set to activate within 15 minutes of user inactivity. All products must be shipped with a Sleep mode which is set to activate within 30 minutes of user inactivity. Products may have more than one low power mode but these proposed criteria address Sleep mode as defined in this specification.
 - All computers, regardless of distribution channel, need to have the ability to enable and disable WOL for Sleep mode. Systems shipped through enterprise channels must have Wake On LAN (WOL) enabled from the Sleep mode when operating on ac power.
 - Computers have to reduce the speed of any active 1 Gb/s Ethernet network links when transitioning to Sleep or Standby.



Evidence:

The compliance with all the criteria mentioned above can be proved with one of the following labels:



EU Ecolabel



Blaue Engel



Nordic Swan



Energy Star

Following label only partly comply with the technical specifications. Should be harmonized with current specifications in the next version.



TCO

In case that the tendering company can present one of these labels, any further proof is not necessary. Any other suitable evidence from a recognized body can also be used.

5) Awarding the contract:

	<i>Criterion</i>	<i>Weight</i>
1	Price <i>Calculation (e.g.):</i> Lowest offered price/ stated price x 0,70	e.g. 70%
2	Environmental criteria (The public authority formulates the points it wants to assign to the below mentioned criteria) <i>Calculation (e.g.):</i> Total scored points / maximum number of points x 0,20	e.g. 20%
3	...	e.g. 5 %
4	...	e.g.



Environmental criteria

Upgradability

- The memory is readily accessible and can be changed. (Toolkit, EU Ecolabel, Nordic Swann, Blaue Engel) [EU toolkit: comprehensive]
- The hard disk and, if available, the CD drive and/or DVD drive, can be changed. (Toolkit, EU Ecolabel, Nordic Swann, Blaue Engel)

Product design

- One qualified person alone shall be able to dismantle it. (EU Ecolabel, Nordic Swan, Blaue Engel)
- The device must have an On-and-Off switch. Such switch must be located on the front of the device. Activation of this switch must set the device into Off mode. Switches and buttons are to be designed by use of symbols according to the IEEE 1621 standard. Off mode: The power consumption level in the lowest power mode which cannot be switched off (influenced) by the user. (EU Ecolabel, Nordic Swan, Blaue Engel)
- Connections are easy to find, accessible with commonly available tools, and as standardised as possible (EU Ecolabel, Nordic Swan, Blaue Engel, toolkit) [EU toolkit comprehensive]

6) Performance clauses:

- The applicant undertakes to accept the free return of the original user exchangeable batteries/accumulators. A third party may be subcontracted for this task. (Blaue Engel)
- Batteries and accumulators which are not designed for exchange by the user must be replaceable without needing to exchange the entire printed circuit board or similar parts holding such batteries and accumulators. (Blaue Engel)
- The manufacturer must furnish a commercial guarantee stating that the system unit, display or the portable computer will function for at least three years. The guarantee must apply from the day on which the computer is delivered to the customer. The applicant undertakes to ensure the supply of spare parts for product repair for at least 5 years following the termination of production and to inform the customer of this. (Blaue Engel, Nordic Swan)



- The applicant undertakes to see to it that spare parts supply and necessary infrastructure for equipment repair is secured for a period of at least 3 years after the end of production and that users are informed about the guaranteed availability of spare parts. (EU Ecolabel, Nordic Swan, Blaue Engel)
- The applicant undertakes to take back own manufactured products after use in order to channel them with preference to reuse or to material. Non-recyclable device parts shall be disposed of in an environmentally sound manner. Waste equipment from private households may always be given to municipal collection facilities free of charge. Waste equipment from the business sector shall be returned free of charge to the applicant or to a return facility to be named by applicant. The return facilities named by applicant must be located in the country where the product is offered. (Blaue Engel)
- All packaging components shall be easily separable by hand into individual materials to facilitate recycling. Where used, cardboard packaging shall consist of at least 80 % recycled material. (EU Ecolabel)
- In order to ensure that purchasers/users are properly informed on the benefits of power management, the manufacturer will include with each computer, one of the following: (Energy Star, Nordic Swan, Blaue Engel, toolkit)
 - o Information on ENERGY STAR and the benefits of power management in either a hard copy or electronic copy of the user manual. This information should be near the front of the user guide; or
 - o A package or box insert on ENERGY STAR and the benefits of power management.

Either option must at least include the following information:

- o Notice that the computer has been shipped enabled for power management and what the time settings are
- o How to properly wake the computer from Sleep mode
- The printed product documentation supplied along with the devices (User Manual, Product Documents) shall be printed on chlorine-free bleached paper, preferably made of recycled paper. (Blaue Engel)

6bis) Specific performance clause

Clause on Ethical trade:

The tenderer ensures that its company and its suppliers respect at least the following international instruments:

- ILO Conventions 29 and 105 (Forced & Bonded Labour)



- ILO Convention 87 and 98 (Freedom of Association and Right to Collective Bargaining)
- ILO Conventions 100 and 111 (Equal remuneration for male and female workers for work of equal value; Discrimination)
- ILO Convention 138 and 182 (Minimum Age and Recommendation and Worst Forms of Child Labour)

Compliance guarantee:

The tenderer states in his offer that the compliance with the specific performance clauses will be guaranteed. He mentions the evidence that can be presented to warrant the compliance. A SA 8000 certificate or the Belgian Social label can be such a proof.

In case the tenderer can't guarantee the compliance with the above mentioned conventions, he will describe the procedure to warrant the compliance in the short term. The social requirements are relevant for its own company and his subcontractors. The efforts will be stated in an action plan.

In case the contract is valid for several years, the company will report every year on the implementation of the action plan and the improvements made. The report is open to the public.

In case the procuring authority receives signals from society that during the execution of the contract the above mentioned requirements are not fulfilled or (announced to be) corrected, the procuring authority can demand the company to account, can demand external advice, can demand an external audit or can handle as in case of breach of contract.

References

[Information of the public authority that used these clauses in a procurement case]



Annex R-PHRASES:

(R-phrases are mentioned on product labels and in product safety datasheets. It can be a useful tool for verification-procedures.)

<u>R1:</u>	Explosive when dry.
<u>R2:</u>	Risk of explosion by shock, friction, fire or other sources of ignition.
<u>R3:</u>	Extreme risk of explosion by shock, friction, fire or other sources of ignition.
<u>R4:</u>	Forms very sensitive explosive metallic compounds.
<u>R5:</u>	Heating may cause an explosion.
<u>R6:</u>	Explosive with or without contact with air.
<u>R7:</u>	May cause fire.
<u>R8:</u>	Contact with combustible material may cause fire.
<u>R9:</u>	Explosive when mixed with combustible material.
<u>R10:</u>	Flammable
<u>R11:</u>	Highly flammable
<u>R12:</u>	Extremely flammable
<i>R13 (obsolet):</i>	<i>Extremely flammable liquid gas (This R-phrase is no longer designated by the version of the GefStoffV published on 26.10.93.)</i>
<u>R14:</u>	Reacts violently with water.
<u>R15:</u>	Contact with water liberates extremely flammable gases.
<i>Merck R15.1</i>	<i>Contact with acid liberates extremely flammable gases.</i>
<u>R16:</u>	Explosive when mixed with oxidizing substances.
<u>R17:</u>	Spontaneously flammable in air.
<u>R18:</u>	In use, may form flammable/explosive vapour-air mixture.
<u>R19:</u>	May form explosive peroxides.
<u>R20:</u>	Harmful by inhalation.
<u>R21:</u>	Harmful in contact with skin.
<u>R22:</u>	Harmful if swallowed.
<u>R23:</u>	Toxic by inhalation.
<i>Riedel-de Haen R23K:</i>	<i>Also toxic by inhalation.</i>
<u>R24:</u>	Toxic in contact with skin.
<i>Riedel-de Haen R24K:</i>	<i>Also toxic in contact with skin.</i>
<u>R25:</u>	Toxic if swallowed.
<i>Riedel-de Haen R25K:</i>	<i>Also toxic if swallowed.</i>
<u>R26:</u>	Very toxic by inhalation.
<i>Riedel-de Haen R26K:</i>	<i>Also very toxic by inhalation.</i>
<u>R27:</u>	Very toxic in contact with skin
<i>Riedel-de Haen R27A:</i>	<i>Very toxic in contact with eyes.</i>
<i>Riedel-de Haen R27K:</i>	<i>Also very toxic in contact with skin.</i>
<i>Riedel-de Haen R27AK:</i>	<i>Also very toxic in contact with eyes.</i>




<u>R28:</u>	Very toxic if swallowed.
<i>Riedel-de Haen R28K:</i>	<i>Also very toxic if swallowed.</i>
<u>R29:</u>	Contact with water liberates toxic gas.
<u>R30:</u>	Can become highly flammable in use.
<u>R31:</u>	Contact with acids liberates toxic gas.
<i>Merck R31.1</i>	<i>Contact with alkalis liberates toxic gas.</i>
<u>R32:</u>	Contact with acids liberates very toxic gas.
<u>R33:</u>	Danger of cumulative effects.
<u>R34:</u>	Causes burns.
<u>R35:</u>	Causes severe burns.
<u>R36:</u>	Irritating to eyes.
<i>Riedel-de Haen R36A:</i>	<i>Lacrimating</i>
<u>R37:</u>	Irritating to respiratory system.
<u>R38:</u>	Irritating to skin.
<u>R39:</u>	Danger of very serious irreversible effects.
<u>R40:</u>	Possible risk of cancer. <i>CAUTION: Until 2001 this R-phrase was used for possible mutagenic or teratogenic risks as well. These risks are now labelled with R68!</i>
<u>R41:</u>	Risk of serious damage to eyes.
<u>R42:</u>	May cause sensitization by inhalation.
<u>R43:</u>	May cause sensitization by skin contact.
<u>R44:</u>	Risk of explosion if heated under confinement.
<u>R45:</u>	May cause cancer.
<u>R46:</u>	May cause heritable genetic damage.
<i>R47(obsolete):</i>	<i>May cause deformities. (This R-phrase is no longer designated by the version of the GefStoffV published on 26.10.93.)</i>
<u>R48:</u>	Danger of serious damage to health by prolonged exposure.
<u>R49:</u>	May cause cancer by inhalation.
<u>R50:</u>	Very toxic to aquatic organisms.
<u>R51:</u>	Toxic to aquatic organisms.
<u>R52:</u>	Harmful to aquatic organisms.
<u>R53:</u>	May cause long-term adverse effects in the aquatic environment.
<u>R54:</u>	Toxic to flora.
<u>R55:</u>	Toxic to fauna.
<u>R56:</u>	Toxic to soil organisms.
<u>R57:</u>	Toxic to bees.
<u>R58:</u>	May cause long-term adverse effects in the environment.
<u>R59:</u>	Dangerous for the ozone layer.
<u>R60:</u>	May impair fertility.
<u>R61:</u>	May cause harm to the unborn child.
<u>R62:</u>	Possible risk of impaired fertility.
<u>R63:</u>	Possible risk of harm to the unborn child.
<u>R64:</u>	May cause harm to breastfed babies.
<u>R65:</u>	Harmful: may cause lung damage if swallowed.
<u>R66:</u>	Repeated exposure may cause skin dryness or cracking.
<u>R67:</u>	Vapours may cause drowsiness and dizziness.
<u>R68:</u>	Possible risks of irreversible effects.

COMBINATIONS OF R-PHRASES:



- R14/15: Reacts violently with water, liberating extremely flammable gases.
- R15/29: Contact with water liberates toxic, extremely flammable gas.
- R20/21: Harmful by inhalation and in contact with skin.
- R21/22: Harmful in contact with skin and if swallowed.
- R20/22: Harmful by inhalation and if swallowed.
- R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
- R21/22: Harmful in contact with skin and if swallowed.
- R23/24: Toxic by inhalation and in contact with skin.
- R24/25: Toxic in contact with skin and if swallowed.
- R23/25: Toxic by inhalation and if swallowed.
- R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
- R24/25: Toxic in contact with skin and if swallowed.
- R26/27: Very toxic by inhalation and in contact with skin.
- R27/28: Very toxic in contact with skin and if swallowed.
- R26/28: Very toxic by inhalation and if swallowed.
- R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.
- R36/37: Irritating to eyes and respiratory system.
- R37/38: Irritating to respiratory system and skin.
- R36/38: Irritating to eyes and skin.
- R36/37/38: Irritating to eyes, respiratory system and skin.
- R39/23: Toxic: danger of very serious irreversible effects through inhalation.
- R39/24: Toxic: danger of very serious irreversible effects in contact with skin.
- R39/25: Toxic: danger of very serious irreversible effects if swallowed.
- R39/23/24: Toxic: danger of very serious irreversible effects through inhalation and in contact with skin.
- R39/23/25: Toxic: danger of very serious irreversible effects through inhalation and if swallowed.
- R39/24/25: Toxic: danger of very serious irreversible effects in contact with skin and if swallowed.
- R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- R39/26: Very toxic: danger of very serious irreversible effects through inhalation.
- R39/27: Very toxic: danger of very serious irreversible effects in contact with skin.
- R39/28: Very toxic: danger of very serious irreversible effects if swallowed.
- R39/26/27: Very toxic: danger of very serious irreversible effects through inhalation and in contact with skin.
- R39/26/28: Very toxic: danger of very serious irreversible effects through inhalation and if swallowed.
- R39/27/28: Very toxic: danger of very serious irreversible effects in contact with skin and if swallowed.
- R39/26/27/28: Very toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- R42/43: May cause sensitization by inhalation and skin contact.
- R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R48/21: Harmful: danger of serious damage to health by prolonged exposure in contact with skin.
- R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.
- R48/20/21: Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.
- R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
- R48/21/22: Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
- R48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
- R48/23: Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- R48/24: Toxic: danger of serious damage to health by prolonged exposure in contact with skin.
- R48/25: Toxic: danger of serious damage to health by prolonged exposure if swallowed.
- R48/23/24: Toxic: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin.
- R48/23/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
- R48/24/25: Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
- R48/23/24/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.



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- R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - R68/20: Harmful: possible risk of irreversible effects through inhalation.
 - R68/21: Harmful: possible risk of irreversible effects in contact with skin.
 - R68/22: Harmful: possible risk of irreversible effects if swallowed.
 - R68/20/21: Harmful: possible risk of irreversible effects through inhalation and in contact with skin.
 - R68/20/22: Harmful: possible risk of irreversible effects through inhalation and if swallowed.
 - R68/21/22: Harmful: possible risk of irreversible effects in contact with skin and if swallowed.
 - R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

