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Professional Procurement:

Office Equipment

Recommendations for executives, persons responsible for procurement and IT

- The most important standards regarding energy efficiency, environmental impact and quality
- Procurement criteria
- Free hand procurement
- Call for tenders



That's What It's About

The information in this folder should encourage an eco-efficient purchase of office equipment by making aware of consumption costs and environmental impact of particular office equipment. The product category «office equipment» includes multifunctional devices (all-in-one), copiers, printers, fax machines, monitors, computers and notebooks. Further most offices contain appliances, such as refrigerators and coffee machines.

Eco-Efficient Procurement – the Motivation

Hidden costs: The operating costs or consequential costs of electric devices are often underestimated. Apart from the costs for printer cartridges and paper they also inlcude electricity costs. Operating costs are much higher than generally assumed and therefore should be considered in a serious cost evaluation.

Production and operation of office equipment cause emissions, waste and use of energy – and thereby affect the environment and the work place.

Office equipment takes up energy, often very high amounts of electricity. Investigations show, that three quarters of the electricity consumption does not occur during the operation of the electric device but is rather caused during standby and sleep-mode. Thus the consideration of all modes is very important.

Many appliances use electricity at two

levels, on the one hand for the regular operation and on the other hand - especially during the summer months - for air-conditioning.

German eco-label which has high standards

sidering emissions, toxic compounds, waste

disposal, user information, duplex printing

and the use of recycled paper. However the

criteria regarding energy consumption are

The Blue Angel

rather moderate.

www.blauer-engel.de

Do It the Right Way

Buy only office equipment complying with the energy- and environmental criteria of Topten or the label the Blue Angel and TCO.

Energy saving mode: Ask your supplier for a correct configuration and activation of the energy saving features, also for operation in networks.

Plan the technical infrastructure like servers. UPS and air conditioning carefully. Equipment is costly and may cause high consequential costs.

Procurement and Leasing

Private companies

Simply choose appliances from www.topten.info. Make a call for offers if necessary.

Public services: not according to WTO

Freehand procurement: Choose appliances from www.topten.info

Invitation: Choose appliances from www. topten.info which follow specific qualitiy and environmental criteria of Topten, the Blue Angel and TCO as you can see in table «Procurement Criteria». Collect a minimum of three offers. Reference: www.topten.info/pro

Public services: according to WTO

Public services: Use criteria from Topten. Reference: www.topten.info/pro

TCO

Label of the Swedish Association of Employregarding office equipment, particularly conees which has high standards regarding electronic equipment and associated emissions, ergonomic criteria and environmental impact. However the requirements for energy consumption are rather moderate. www.tcodevelopment.com



Procurement Criteria

Product category	Main criteria Topten	Purchase and call for tenders	
		Mandatory	Voluntary
		criteria	criteria
Laser: Printers and Multifunctionals	TEC (kWh/week, depending on printing speed)Use of recycled paper guaranteed	see topten.info	The Blue Angel Duplex printing
Inkjet: Printers and Multifunctionals	Power SleepPower OffUse of recycled paper guaranteed	see topten.info	The Blue Angel
Fax	Power Sleep/StandbyUse of recycled paper guaranteed	see topten.ch	
Monitors	 Power On (depending on size) Power Sleep Power Off TCO'99 or TCO'03 	see topten.info	The Blue Angel
Computers, Notebooks	Energy efficiency	Energy Star	The Blue Angel, TCO'05
Refrigerators	Efficiency class A++	see topten.info	
Coffee Machines	 Auto-power-down function Electricity consumption Ready Power Standby/Sleep 	see topten.info	
Lighting	Luminous flux (depending on lamp type)Power Standby	see topten.ch	Minergie
Lamps	Efficiency class ASwitching cyclesLamp lifetimeColor rendering	see topten.info	

Communities and companies buy increasingly according to Topten. **Examples** are ICLEI – Local Governments for Sustainability – and «European Energy Award». In this way they make a statement, outwards to citizens, customers and suppliers and inwards to the employees. Reference: www. topten.info/pro

Topten

topten.info

Online search tool including listings of appliances, fotos and specifications. Topten has a focus on energy efficiency of appliances. The standards and criteria for energy consumption are much more stringent than the ones of the Blue Angel and TCO. Topten is supported by public services and private institutions. www.topten.info

Energy Star

International label of the US-Environmental Protection Agency specifying minimum requirements for energy consumption. The criteria are met by many appliances available on the market. Therefore Energy Star has rather the role of a minimum energy requirement.



www.eu-energystar.org

Energy Efficient Office

Energy saving features: Support your users in the configuration of energy saving features. Topten standards described at topten.info are recommended. Settings should be checked regularly, especially for multifunctional devices, copiers and monitors.



Switchable connection plug board: All equipment including desk lamps, can be disconnected from the grid by use of a connection plug board. Only in Wake-on-LAN-Systems computers, notebooks and dockingstations are directly connected to the grid.

Timer for central printers and copiers



can be used for automatic shut-off and wakeup of equipment (use of analogue timer recommended). The by-pass switch allows printing after regular working hours.

Recycled paper: Use recycled paper for multifunctional devices, copiers and printers. The production of recycled paper uses only one third of energy and water compared to standard paper.

Duplex printing and printing of two

sides on one A4 page: Both measures help to save paper and can be combined. Use this setting as your standard.

Air-conditioning: The temperature in server rooms can rise up to 26 °C without affecting the safety of the system. Thus a setting of the room temperature to 26 °C helps to save energy.

Uninterruptible power supply, UPS: Only use UPS for equipment where it is used for safety reasons.

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Swiss Confederation

Federal Office for the Environment FOEN

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www.topten.info

www.bafu.admin.ch

www.chgemeinden.ch

www.ewz.ch

Topten International Group, Paris, France:

WWF Switzerland: www.wwf.ch

European Energy Award: www.energiestadt.ch

Federal Office for the Environment (FOEN):

Interest Group for Ecological Purchasing

Schweizer Gemeinde (Swiss Community):

Zurich Municipal Electric Utility (ewz):

Swiss Agency for Efficient Energy Use (S.A.F.E.): www.energy-efficiency.ch

(IGEP), Switzerland: www.igoeb.ch

