

Group Work Activities

GPP - Core criteria, excellence criteria, LCC and award criteria
for Computers
(Day 2)



Green Public Procurement

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Overview Group Work Activities Day 2

- 1** Group Work 1: Core Criteria and Verification Methods
- 2** Group Work 2: Excellence Criteria and Verification
- 3** Group Work 3: Integration of LCC-based Criteria
- 4** Group Work 4: Award Point System for Evaluation

Group Work 1: Core Criteria

Core criteria:

- address the key environmental impacts
- are designed to be used with minimum additional verification effort or cost increases
- should be suitable for use by any contracting authority in the country

Examples:

- for Paper used for normal office use a core criteria in EU GPP is that it is made of 100% recycled paper fibres
 - addresses key environmental impact of paper

Core criteria can be interpreted as mandatory minimum requirements for the tender.

Group Work 1: Core Criteria

Key environmental impacts: Computers

Key Environmental Impacts	GPP Approach
<ul style="list-style-type: none"> • Energy consumption and resulting Carbon Dioxide (CO₂) emissions 	<ul style="list-style-type: none"> • Purchase energy efficient models • Purchase products with a restricted amount of hazardous
<ul style="list-style-type: none"> • Air, soil and water pollution, ozone formation (smog), bioaccumulation or food chain exposure and effects on aquatic organisms due to hazardous constituents e.g. mercury content of LCD displays and flame retardants • Negative impact on the health of employees due to noise, causing stress for those sensitive to such sounds • Use of energy, finite resources and harmful emissions related to the production of IT products (raw material acquiring, manufacture of components) • Generation of waste material including packaging and final disposal 	<ul style="list-style-type: none"> constituents and promote take back options • Purchase products with a restricted noise level • Design for recycling, longer life and promote take back options • Ensure the recyclability of the packaging used • Increase the use of recycled packaging • Safe disposal (recycling, re-using) of final products



Guiding Questions

- What are **important core criteria** regarding the procurement of computers?
- Information is available:
 - EU-GPP website:
http://ec.europa.eu/environment/gpp/pdf/criteria/office_it_equipment.pdf
 - Blue Angel:
http://www.blauer-engel.de/en/products_brands/search_products/search_for_products.php
 (Desktop Computer and Portable Computers)
 - Eco-Label schemes in your country:
http://www.globalecolabelling.net/categories_7_criteria/list_by_country/index.htm
 - Independent portal of BITKOM and UBA
<http://www.itk-beschaffung.de/en/download-area.html>

Developing Core Criteria for Computers

Before Criteria can be set, the subject matter is to be defined. It explains the aspect of the procurement of the product.

Computers	
Subject Matter	Purchase of [PCs/notebooks/monitors] with low environmental impacts throughout the lifecycle.
Technical Specifications	
	<p>Packaging: Where cardboard boxes are used, they shall be made of at least 50% recycled material. Where plastic bags or sheets are used for the final packaging, they shall be made of at least 50% recycled material or they shall be biodegradable or compostable, in agreement with the definitions provided by the EN 13432.</p> <p>...</p> <p>...</p> <p>Assessment and verification: Products holding a relevant type I ecolabel fulfilling the listed criteria will be deemed to comply. Alternatively, a declaration of compliance with this criterion for the product packaging should be supplied. Only primary packaging, as defined in Directive 94/62/EC, is subject to the criterion.</p>

Overview Group Work Activities Day 2

- 1 Group Work 1: Core Criteria and Verification Methods
- 2 Group Work 2: Comprehensive / Excellence Criteria and Verification
- 3 Group Work 3: Integration of LCC-based Criteria
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Group Work 2: Comprehensive / Excellence Criteria

Comprehensive criteria:

- are more ambitious than core criteria and take into account more aspects or higher levels of environmental performance
- are for those who wish to purchase the best products available on the market

Examples:

- A refrigerator is 20% more efficient than stated in the core criteria
- A lamp has a 10% longer lifetime than stated in the core criteria

Comprehensive criteria are not mandatory requirements in the tender. Extra credit or points can be given for products complying with comprehensive / excellence criteria.

Guiding Questions and Information

- What are possible comprehensive **criteria** regarding the procurement of computer? Information is available under:
 - EU-GPP website:
http://ec.europa.eu/environment/gpp/pdf/criteria/office_it_equipment.pdf
 - Blue Angel:
http://www.blauer-engel.de/en/products_brands/search_products/search_for_products.php
 (Desktop Computer and Portable Computers)
 - Eco-Label schemes in your country:
http://www.globalecolabelling.net/categories_7_criteria/list_by_country/index.htm
 - Independent portal of BITKOM and UBA
<http://www.itk-beschaffung.de/en/download-area.html>

Developing Comprehensive Criteria

Fluorescent Lamps

Subject Matter

Purchase of [PCs/notebooks/monitors] with low environmental impacts throughout the lifecycle.

Technical Specifications

Packaging: Where cardboard boxes are used, they shall be made of at least 80% recycled material. Where plastic bags or sheets are used for the final packaging, they shall be made of at least 75% recycled material or they shall be biodegradable or compostable, in agreement with the definitions provided by the EN 13432.

Assessment and verification: Products holding a relevant type I ecolabel fulfilling the listed criteria will be deemed to comply. Alternatively, a declaration of compliance with this criterion for the product packaging should be supplied. Only primary packaging, as defined in Directive 94/62/EC, is subject to the criterion.

Comprehensive Criteria are more ambitious than core criteria; regarding content of recycled material in cardboard boxes and plastic boxes

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Group Work 3: Integration of LCC criteria

Life Cycle Costing (LCC) takes into account all costs that occur during the full life-cycle of a product.

Computers (e.g. Desktop PCs, Notebooks)			
	Quantity	Unit Price	Total Costs
Procurement	1000	8,000,000 IDR	1000*8,000,000 IDR
Delivery			
Installation			
Usage (Energy Costs)	Energy Consumption per year * average life time in years* number of notebooks	400 IDR per kWh	...
Maintenance			
Disposal			
TOTAL LIFE CYCLE COSTS			

Group Work 3: Integration of LCC criteria

- Assumptions for the calculation of costs during usage:

	Desktop PC 1	Desktop PC 2	Notebook 1	Notebook 2
Purchase costs (€)	500	600	800	1000
Life time (years)	6	6	3	3
Energy Consumption (kWh/ year)	175	130	53	35
Electricity price per kWh	Country-specific	Country-specific	Country-specific	Country-specific
LCC	?	?	?	?

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Award Point System for Evaluation

Guiding Question: Which tender should be selected?

No.	Criterion	Weight (%)	Max. Score	Min. Score required	Points for Tender 1	Points for Tender 2
(A)	<i>Recycling</i>	20%	200	0		
(B)	<i>Technical Support</i>	10%	100	50		
(C)	<i>LCC</i>	50%	500	250		
(D)	<i>Packaging</i>	20 %	200	100		
TOTAL		Sum: 100 %	1000	400		

Finally, the tender with the highest score is selected.

Explanation of Award Criteria

(A) Recycling

- **Example: Does the supplier offer a take back system?**
- If yes, 200 points are awarded.

(B) Technical Support

- **Example: Does the supplier offer technical support?**
- If yes, one hour of technical support per year is translated into 1 point.

(C) Life Cycle Costs

- The tender with the lowest Life-Cycle Cost is awarded with all the points
e.g. LCC of Tender 1 is **100,000 € → 500 points**
- Less points are awarded to the other tenders, e.g. LCC of Tender 2 is **200,000 € only 250 points** are awarded.

Explanation of Award Criteria

(D) Packaging

- **Example: Packaging of the products shall be provided by carton made of xy % of recycled pulp.**
- 1 % of recycled pulp in the packaging material is transposed in 2 points, so 50% of recycled pulp translates into 100 points.

Please define and explain a possible award point system for the selection of tenders for computers.

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