



Renting of a full service digital multifunctional equipment

Autonomous Province of Bolzano Alto Adige

- Reduction of CO₂ emissions by the renting of low-energy multifunction devices
- Reference to the Minimum Environmental Criteria for IT products (PC, printers, multifunction equipment, photocopiers) adopted by the Italian Ministry of the Environment and for Protection of the Land and Sea with DM 13 December 2013 (G.U. n.13 of 17 January 2014)



Benchmark

- 12.7 t CO₂e/year
- 2.7 toe/year

GPP 2020 tender

- 4.4 t CO₂e/year
- 0.9 toe/year

Results

Savings:

- 8.2 t CO₂e/year
- 49.5 t CO₂e/lifetime (=6 years)
- 1.8 toe/year
- 10.5 toe/lifetime

Contract tendered

- The contract tendered foresees the renting of 140 laser color multifunction devices with the purpose to replace the existent printers/photocopiers/scanners with shared multifunction devices connected to the Print Management central system. This will allow the rationalization and the costs reduction, the better environmental performances and an increased employees' safety.
- The tenderer were asked to guarantee the following:
 - Delivery, installation and activation
 - Service desk (questions management service – contact point)
 - Technical support, maintenance and qualified system consultancy after the installation (with the management software Equitrac)
 - Supply of consumables
 - Disposal of waste materials and old equipment
 - Remote meter reading service
 - End of activity
 - Reports (monthly reports on the number of prints and quarterly reports on the agreements on the service level like average time for troubleshooting)
 - Multifunctional printers movement
- Overall expenditure: € 1,554,420.



Procurement approach

Open procedure based on the criteria of economically most advantageous tender; only 1 lot.

Technical Specifications	Award Criteria
<p>Multifunctional printers environmental characteristics required:</p> <p>a) EPA “ENERGY STAR® Program Requirements for Imaging Equipment – Version 2.0” label (or equivalent ISO 14024 label)</p> <p>b) Limits of TVOC emissions, ozone, dust, benzene, styrene and noise emissions</p> <p>c) TEC (Typical Energy Consumption kWh / week): additional score is awarded if the performance is an improvement in comparison with the Energy Star requirements</p> <p>Verification:</p> <p>For the b) specification, “Der Blaue Engel” (RAL UZ 171, ed. 2012), “Eco Mark” (Product Category No.155, ver.1, may 2014) or any other equivalent ISO 14024 label (type I) are accepted as a proof.</p> <p>For both the technical specifications, the bidders must prove in the statements that accompany their offer or in a “Proof report” from a certified body, that they fulfill all the technical specifications, as requested by art. 68, comma 10, D.Lgs.163/2006.</p>	<p>Economically most advantageous tender.</p> <p>Technical award criteria: maximum of 70 points</p> <p>Economic award criteria: maximum of 30 points.</p>

Criteria development

The tender was developed according to the indications of the Minimum Environmental Criteria for IT products (PC, printers, multifunction equipment, photocopiers) adopted by the Italian Ministry of the Environment and for Protection of the Land and Sea with DM 13 December 2013 (G.U. n.13 of 17 January 2014). Specifically:

- Paragraph 7.3.1: Energy consumption
- Paragraph 7.3.2: Noise emissions
- Paragraph 7.3.3: Air emissions

http://www.minambiente.it/sites/default/files/archivio/allegati/GPP/GPP_CAM_IT.pdf

Results

	CO ₂ e emissions	Energy consumption
Low carbon solution	4.4 t CO ₂ e/year	0.9 toe/year
Benchmark	12.7 t CO ₂ e/year	2.7 toe/year
Annual savings	8.2 t CO ₂ e/year	1.8 toe/year
Savings over the lifetime (6 years)	49.5 t CO ₂ e	10.5 toe

Calculation basis

The calculation basis is the Office ICT calculator from GPP2020 (updated to December 2014).

Number of MFD: 140

Lifetime: 6 years

Benchmark: Energy-star certified MFD, Typical electricity consumption: 4.3 kWh/week

Low carbon solution: MFD with atypical electricity consumption: 1.5 kWh/week

Emission factor for the italian electricity mix: 0.405 kg CO₂/kWh

Lessons learned

The required equipment has to be compliant with the last efficiency standard from “ENERGY STAR® Program Requirements for Imaging Equipment–Version-2.0”. Nowadays, there are no

problems to find them on the market, because most of the producers are compliant with the Energy Star standard.

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About GPP 2020

GPP 2020 aims to mainstream low-carbon procurement across Europe in support of the EU's goals to achieve a 20% reduction in greenhouse gas emissions, a 20% increase in the share of renewable energy and a 20% increase in energy efficiency by 2020.

To this end, GPP 2020 will implement more than 100 low-carbon tenders, which will directly result in substantial CO₂ savings. Moreover, GPP 2020 is running a capacity building programme that includes trainings and exchange. – www.gpp2020.eu

About PRIMES



Across six countries in Europe; Denmark, Sweden, Latvia, Croatia, France and Italy, PRIMES project seeks to help municipalities overcome barriers in GPP processes, many of which lack capacity and knowledge.

PRIMES aims to develop basic skills and provide hands-on support for public purchasing organisations in order to overcome barriers and implement Green Public Purchasing. This will consequently result in energy savings and CO₂ reductions. – www.primes-eu.net



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