



Service for the management of the printing system

Region Veneto

- Integrated service for the management of the activities linked to last generation office-departmental multifunctional equipment
- Reduction of “personal use” printers, substituted by network shared multifunction devices
- Consumption rationalization and reduction (toner, paper and electric energy) and improvement of the management



Benchmark

- 339.4 t CO₂e (5 years)
- 45.5 toe (5 years)

GPP 2020 tender

- 210.2 t CO₂ e (5 years)
- 28.2 toe (5 years)

Results

- 129.2 t CO₂e saved in 5 years
- 17.3 toe of energy saved in 5 years

Contract tendered

- The object of the contract is an “all included” service consisting of the rental of 500 multifunctional devices that need to be installed at the headquarters of Veneto Region, accompanied by an adequate hardware and software system for the network management, the provision of all the necessary consumption materials, the hardware and software and the assistance in the training of the users during the whole contractual period.
- The service object of the tender has 60 months duration.
- The value of the contract is 3.600.000,00 €.
- A total of around 3.000 users.
- The equipment is divided among 50 regional headquarters and the headquarters in Rome and Brussels.
- The equipment that is object of the contract belongs to 5 groups:
 - A - 60 MFP monochrome A3/A4, 55-66 ipm;
 - B - 250 MFD monochrome and color, A4, 40-51 ipm;
 - C - 35 MFD monochrome and color A4, 30 ipm;
 - D - 125 MFD monochrome, A4, ≥ 25 ipm;
 - E - 30 desktop printers monochrome, A4, ≥ 30 ipm.
- The decree of the open procedure for the service has been published in the Official Bulletin of the Region Veneto no.53 from 29 May 2015.



Procurement approach

The tender procedure consisted in an open procedure, realized in one lot.

Technical specifications	Award criteria
<p>The technical offer is evaluated based i. a. on the following characteristics of the equipment:</p> <ul style="list-style-type: none"> • Print/copy speed • Front/back scan speed; b/w and color • Printing resolution • Front/back printing automatic module • Scan from front/back automatic charger in one step (simultaneous scanning with two read/write heads) • Adjustable display, superior to an indicated determined value (different for each equipment type) • Unique graphic interface of the display 	<p>The awarding is based on the most advantageous economic offer based on art. 83 of the Legal Decree no. 163/2006. Extra points are awarded for:</p> <ul style="list-style-type: none"> • Energy consumption TEC (art. 7.3.1 – D.M. 13 December 2013) • Ozone emissions (art. 7.3.3– D.M. 13 December 2013) • Particle emission (art. 7.3.3. – D.M. 13 December 2013) <p>The scoring has been divided as it follows:</p> <ul style="list-style-type: none"> • 70 points for the technical offer • 30 points for the economic offer

<ul style="list-style-type: none"> • Characteristics of the “printing rules”: <ul style="list-style-type: none"> ○ Front/back printing as predefined printing, monochrome predefined printing, creation of “alert” messages when a certain number of pages is printed etc. ○ It encompasses the functionality of “scan to my self” and “optical character recognition” <p>Verification</p> <p>The TEC requirements need to be proved by a proof report elaborated by an accredited laboratory based on UNI EN ISO 17025 norm.</p> <p>The respect of the requirement related to the area emissions needs to be proved through the presentation of a proof report elaborated by an accredited laboratory based on UNI EN ISO 17025 norm showing the results of the tests realized using the methods of Der Blaue Engel RAL UZ 171/2012 – Appendix 2 – “Test method for the determination of emissions from hardcopy devices” or equivalent.</p>	<p><i>ENVIRONMENTAL PERFORMANCES WITHIN THE TECHNICAL OFFER:</i></p> <p>In the phase of evaluation of the technical proposal, the environmental performance can receive a maximum of 11 points. The characteristics of these evaluations encompass:</p> <ul style="list-style-type: none"> • Energy savings determined accordingly to the test procedures of the “ENERGY STAR® Program Requirements for Imaging Equipment” Guidelines or equivalent, expressed in TEC “typical energy consumption” in kWh/wee • Ozone emissions of black and white MFD $\leq 1,5$ mg/h • Ozone emissions of color MFD ≤ 3 mg/h • particle emissions of printers ≤ 4 mg/h
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Criteria development

The technical specifications of the tender are compliant with the Minimal Environmental Criteria elaborated by the by the Italian Ministry of the Environment and for Protection of the Land and Sea and published in the Ministerial Decree from 13 December 2013 “Acquisition, rental or leasing of multifunctional equipment”

http://www.minambiente.it/sites/default/files/archivio/allegati/GPP/gu_13_allegato2.pdf:

Concerning the Minimal Environmental Criteria, the parameters that have been taken into account and inserted as awarding criteria in conformity with the Decree are:

- for all the types of printing equipment there have been established productivity limits with regard to the parameters from the Decree:
 - white and black printing equipment maximum speed ≤ 66 ppm
 - color printing equipment maximum speed ≤ 51 ppm
- evaluation of finalized company policies regarding the environmental compliance point 2;
- weekly TEC comparisons of the equipment offered in the group A, B, C;
- comparisons of the ozone emissions for all the multifunction bands, divided by groups;
- comparisons of the particles emissions of the desktop printers.

Results

	CO ₂ e emissions	Energy consumption
Low carbon solution	210.2 t CO ₂ e	28.2 toe
Benchmark	339.4 t CO ₂ e	45.5 toe
Savings (in 5 years)	129.2 t CO ₂ e	17.3 toe

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Calculation basis

Benchmark: The equipment previously used: 800 MFD whose TEC (Typical Energy Consumption) ranged from 1.5 to 6.0 kWh/week.

Low carbon solution: A reduced amount of MFD due to the new service – only 500 devices - whose TEC ranges from 1.2 to 5.3 kWh/week.

52 working weeks per year.

The lifetime of the devices is 60 months.

Emission factor for the Italian electricity mix: 0,641 kg CO₂e/kWh (Source: Ecoinvent).

Lesson learnt

The largest advantages derived from the new contract consist in:

- electric energy savings;
- improved efficiency in the use of the toner and paper (through an improved control of the printer output);
- modification of the users' printing habits and reduction of the expenses through specific printing rules, training and information actions, use of users profiles and a system for the management, monitoring and administration per cost centers.

Contacts

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GPP 2020

GPP2020 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, GPP2020 will implement more than 100 low-carbon tenders, which will directly result in substantial CO₂ savings. Moreover, GPP2020 is running a capacity building programme that includes trainings and exchange of best practices. – www.gpp2020.eu

PRIMES



PRIMES project seeks to help municipalities from six countries in Europe: Denmark, Sweden, Latvia, Croatia, France and Italy to 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 organizations 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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