



Acquisition of energy efficient IT equipment

Region Sicily

- Acquisition of low energy consumption IT equipment



Benchmark

- 1.5 t CO₂e/year
- 0.33 toe/year

GPP 2020 tender

- 1.3 t CO₂e/year
- 0.28 toe/year

Results

Savings:

- 0.2 t CO₂e/year
- 0.05 toe/year
- 1.2 t CO₂e/5 years
- 0.26 toe/5 years

Contract tendered

- The object of the contract consisted of multifunctional printers and scanners with high-energy performances for the Regional environmental department of Sicilia Region.
- The acquisition has been realized via the “Electronic market for public administration” (MePa).
- MePa represents the digital market within which the accredited administrations can buy, for values that are below the EU thresholds, goods and services from suppliers that are entitled to present their offers in the system.
- The acquisition has been realized by publishing an “acquisition request” on MePa.
- The total amount of the acquisition was € 9,935.

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Procurement approach

Besides the provision of the low energy consumption equipment, the supplier is supposed to detain and provide a manual with criteria for the responsible use of the equipment.

The equipment needs to be compatible with the majority of the paper composed of recycled cellulose fibers that are currently on the market (including waste paper that is not whitened with chlorine gas).

Technical specifications	Award criteria
Equipment certified with the European Ecolabel, Der Blaue Engel, Nordic Ecolabelling (Nordic Swan) or other ISO 14024 label type (type I) are considered compliant.	The lowest price The suppliers have to demonstrate that the products respect all the requirements

Development of the criteria

Before realizing the acquisition request towards Consip S.p.A, a market sounding activity has been realized with some of the largest producers of equipment for printers and scanners that resulted in performance characteristics for the new equipment (such as the ISO printing speed, the resolution, the energy consumption, the sound pressure etc.) and gave indications on the type I environmental labels that guarantee the best environmental performances for the respective equipment.

Results

	CO ₂ e emissions	Energy consumption
Low carbon solution	1.3 t CO ₂ e	0.28 toe
Benchmark	1.5 t CO ₂ e	0.33 toe
Savings per year	0.2 t CO ₂ e	0.05 toe
Savings in 5 years	1.2 t CO ₂ e	0.26 toe



Calculation basis

The estimations have been realized through the Office-ICT calculator from the GPP2020 project (version: December 2014) for 21 scanners, 14 monochromatic multifunctional printers and 1 color multifunctional printer that have been object of the tender. The results are presented below:

Benchmark: The figures of the benchmark come from the original energy star calculator offered by the EPA (United States Environmental Protection Agency) and the DOE (Department of Energy).

Electricity consumption: 3,818 kWh/year

Low emission solution: Electricity consumption: 3,207 kWh/year.

Emission factor of the Italian electricity mix provided by the calculator: 0.405 kg CO₂e/kWh.

We estimate that the devices are used for 5 years.

Lesson learnt

The request of equipment with environmental label compliant with ISO 14024 standard (type I) did not encounter difficulties in the identification of compliant products.

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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