



Supply and maintenance of energy efficient copiers and multifunctional devices (copier, fax, printer, scanner)

Republic of Slovenia, Ministry of Finance

- Contract covers 52 contracting authorities
- Replacement with energy efficient solutions (more than 230 units)



Last tender = benchmark

- 304.920 kWh electricity/year
- 105.187,05 kg CO₂/year

GPP 2020 tender

- 38.038 kWh electricity/year
- 13.123,11 kg CO₂/year

Results - savings

- 22,95 toe/year (68,85 toe in total)
- 92,06 t CO₂/year (276,18 t CO₂ in total)

Contract tendered

- Three year framework agreement for the supply and maintenance of energy efficient copiers and multifunction devices (copier, fax, printer, scanner).
- Common public tender, published by the Public Procurement Directorate of the Ministry of Finance, Slovenia, in October 2013.
- Contract to cover 52 contracting authorities. Contracting authorities are Ministries, constituent bodies of the Government, Government offices, individual local self-government and public institutions that have authorized Ministry of Finance to execute the tender on their behalf. The contract was divided into 12 sections with 448 units.
- The Ministry of Finance entered into a three year general framework agreement with all tenderers that have filed complete bids. Individual contracting authorities enter individual framework agreements with all tenderers that are part of a general framework agreement.
- For an individual order, individual contracting authority initially calls the first candidate from the list of candidates in individual section. In case that initially called candidate in the appointed time reports to the individual contracting authority, that he cannot supply the devices, individual contracting authority then calls the next candidate from the list to do so.
- Reopening competition will be executed after every 8 to 12 months. After each executed reopening a new list of candidates, based on the lowest price criteria, will be made for an individual section.

Procurement approach

Type of procurement procedure: Open procedure

Subject matter: Supply and maintenance of energy efficient copiers and multifunctional devices (copier, fax, printer, scanner).

Specifications:

- Offered models of multifunctional devices must fulfill the latest ENERGY STAR standards of energy efficiency, valid on the day of tender notice (that was ENERGY STAR v 1.1).
- They must have a built-in efficiency mode – automatic shutdown of a device.
- Upon contracting authorities demand, the supplier will have to cart off old devices that will be replaced with new ones. This has to be done in accordance with provisions of the Decree on handling waste electronic and electrical equipment (Official Gazette of the Republic of Slovenia, nr. 107/06 and 100/10).

Award criteria: Lowest price.

Contract clauses: Upon delivery of device to the individual contracting authority, the supplier will also have to provide an instruction book on lowering energy consumption in Slovenian language. Instructions must include at least:

- Information on factors that include energy consumption, consumption of toners, expendable supplies and materials, paper (e.g. standby and hibernation settings, print, copy and scan settings, etc.) and ways to save energy, related to those factors.
- Instructions on how to adjust settings that effect energy consumption and consumption of toners, paper and expendable supplies and materials (e.g. standby settings, duplex copy and print settings and imposition settings, as well as toner efficiency settings)
- Warnings on how even in standby and hibernation modes, device still consumes energy and that in is best to shut down the device in case of longer disuse.

Market response: In 11 sections the contracting authority received bids of six different bidders that filed bids for different sections. For section 12 the contracting authority received no bids (see table below).

Lot	Estimated quantity of devices	Nr. of received bids	Nr. of complete bids
Lot 1 - Desktop MFP A4 (minimum 20 copies) – monochrome	63	5	3
Lot 2 - Desktop MFP A4 (minimum 30 copies) – monochrome	46	5	3
Lot 3 - Desktop MFP A4 (minimum 40 copies) – monochrome	68	5	3
Lot 4: Freestanding MFP A3 (minimum 30 copies) – monochrome	80	5	0
Lot 5: Freestanding MFP A3 (minimum 40 copies) – monochrome	61	5	0
Lot 6 - Freestanding MFP A3 (minimum 50 copies) – monochrome	17	5	3
Lot 7: Desktop MFP A4 (minimum 20 copies) – colour	16	5	0
Lot 8: Freestanding MFP A3 (minimum 30 copies) – colour	34	6	0
Lot 9 Freestanding MFP A3 (minimum 40 copies) – colour	19	5	2
Lot 10 - Freestanding MFP A3 (minimum 60 copies) – colour	22	4	1
Lot 11 - Freestanding MFP A3 (minimum 60 copies) – monochrome	2	2	2
Lot 12: Portable MFP A4 (minimum 18 copies) – colour – inkjet printer	20	0	0

For sections 4, 5, 7, 8 and 12 in which no bids were filed, Ministry of Finance is in process of ongoing negotiations based on the preliminary notice.

Criteria development

This tender follows requirements included in the Decree on Green Public Procurement (<http://www.pisrs.si/Pis.web/pregledPredpisa?id=URED5194>).

Results

An approximate amount of 237 multi functional devices were purchased.

Low Carbon Solution	CO ₂ emissions
GPP 2020 tender	13,12 t CO ₂ /year
Last tender (benchmark)	105,18 t CO ₂ /year
Savings	92,06 t CO ₂ /year

Electricity consumption	Electricity consumption
GPP 2020 tender	38.038 kWh/year
Last tender (benchmark)	304.920 kWh/year
Savings	266.882 kWh/year (22,95 toe/year)

Calculation basis

Calculation is based on the office-ICT-calculator of GPP 2020 (version 19.5.2014). Data inputs for the GPP 2020 tender are supplied by the Public Procurement Directorate of the Ministry of Finance. 196 laser monochrome printers and 41 laser color printers were purchased, together 237 printers. Data for annual electricity consumptions were taken from the calculator. Compared to last tender (=Energy Star) savings of electricity and CO₂ emissions were calculated, on the following basis:

Laser Monochrome - Electricity:

Last tender: 1356 kWh (value taken from the calculator) / MFD / year * 196 MFD purchased = 265.776 kWh / year

Low carbon solution: 156 kWh (value taken from the calculator) / MFD / year * 196 MFD purchased = 30.576 kWh / year

From which follows: 265.776 – 30.576 = savings of 235.200 kWh / year

Laser Monochrome - CO₂ emissions:

Last tender: 265.776 kWh / year * 0,345 (CO₂ emissions / kWh for Slovenia) = 91.692,72 kg / year

Low carbon solution: 30.576 kWh / year * 0,345 (CO₂ emissions / kWh for Slovenia) =

10.548,72 kg / year

From which follows: $91.692,72 - 10.548,72 = 81.144$ kg CO₂ / year

Color - Electricity:

Last tender: 954 kWh (value taken from the calculator) / MFD / year * 41 MFD purchased = 39.144 kWh / year

Low carbon solution: 182 kWh (value taken from the calculator) / MFD / year * 41 MFD purchased = 7.462 kWh / year

From which follows: $39.144 - 7.462 =$ savings of 31.682 kWh / year

Color - CO₂ emissions:

Last tender: 39.144 kWh / year * 0,345 (CO₂ emissions / kWh for Slovenia) = 13.494,33 kg / year

Low carbon solution: 7.462 kWh / year * 0,345 (CO₂ emissions / kWh for Slovenia) = 2.574,39 kg / year

From which follows: $13.494,33 - 2.574,39 = 10.919,94$ kg CO₂ / year

Electricity savings (in total): 235.200 + 31.682 = 266.882 kWh / year

CO₂ emissions savings (in total): 81.144 + 10.919,94 = 92.063,94 kg CO₂ / year

Lessons learned

In the field of IT equipment we demanded the supply of new equipment in accordance with the ENERGY STAR standard that has not been updated for a long time. The majority of producers of IT equipment label their products with ENERGY STAR.

In the field of IT equipment we will have to perfect our knowledge of different voluntary labels, used for labelling product energy efficiency, which will enable us to do a better market analysis and define more ambitious demands on energy efficiency within future tendering processes.

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Tender accessible at: www.djn.mf.gov.si/javna-narocila/arhiv-javnih-narocil

