



Supply and maintenance of energy efficient copiers and multifunctional devices (copier, fax, printer, scanner) – part 2

Republic of Slovenia, Ministry of Finance

- Contract covers 52 contracting authorities
- Replacement with energy efficient solutions (196 units)



Last tender = benchmark

- 38.446 kWh electricity/year
- 13,26 t CO₂/year

GPP 2020 tender

- 18,354 kWh electricity/year
- 6,33 t CO₂/year

Results - savings

- 1,73 toe/year (8,65 toe in total)
- 6,93 t CO₂/year (34,65 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). **This tender model (part 2) describes the results of lots that were tendered for previously but did not result in any complete bids.**
- Common public tender, published by the Public Procurement Directorate of the Ministry of Finance, Slovenia, in March 2014.
- 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 5 sections with 216 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: Negotiated procedure with prior publication of a contract notice.

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 4 sections the contracting authority received one final bid for four lots. For lot 5 the contracting authority received no bids (see table below).



Lot	Estimated quantity of devices	Nr. of received bids	Nr. of complete bids
Lot 1: Freestanding MFP A3 (minimum 30 copies) – monochrome	80	1	1
Lot 2: Freestanding MFP A3 (minimum 40 copies) – monochrome	66	1	1
Lot 3: Desktop MFP A4 (minimum 20 copies) – colour	16	1	1
Lot 8: Freestanding MFP A3 (minimum 30 copies) – colour	34	1	1
Lot 12: Portable MFP A4 (minimum 18 copies) – colour – inkjet printer	20	0	0

Criteria development

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

Results

169 multi-functional devices were purchased. Our estimate is that devices will be used at least five years.

Low Carbon Solution	CO ₂ emissions
GPP 2020 tender	6,33 t CO ₂ /year
Last tender (benchmark)	13,26 t CO ₂ /year
Savings	6,93 t CO ₂ /year

Electricity consumption	Electricity consumption
GPP 2020 tender	18.354 kWh/year
Last tender (benchmark)	38.446 kWh/year
Savings	20.092 kWh/year (1,73 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. 146 monochrome laser MFD and 50 color laser printers were purchased, together 196 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: 151 kWh (value taken from the calculator) / MFD / year * 146 MFD purchased = 22.046 kWh / year

Low carbon solution: 99 kWh (value taken from the calculator) / MFD / year * 146 MFD purchased = 14.454 kWh / year

From which follows: savings of 7.592 kWh / year

Laser Monochrome - CO₂ emissions:

Last tender: 22.046 kWh / year * 0,345 (CO₂ emissions / kWh for Slovenia) = 7.605,87 kg / year

Low carbon solution: 14.454 kWh / year * 0,345 (CO₂ emissions / kWh for Slovenia) = 4.986,63 kg / year

From which follows: savings of 2.619,24 kg / year

Laser color - Electricity:

Last tender: 328 kWh (value taken from the calculator) / MFD / year * 50 MFD purchased = 16.400 kWh / year

Low carbon solution: 78 kWh (value taken from the calculator) / MFD / year * 50 MFD purchased = 3.900 kWh / year

From which follows: 16.400 – 3.900 = savings of 12.500 kWh / year

Laser Color - CO₂ emissions:

Last tender: 16.400 kWh / year * 0,345 (CO₂ emissions / kWh for Slovenia) = 5.658 kg /

year

Low carbon solution: 3.900 kWh / year * 0,345 (CO₂ emissions / kWh for Slovenia) =
1.345,50 kg / year

From which follows: 5.658 – 1.345,50 = 4.312,50 kg CO₂ / year

Electricity savings (in total): 20.092 kWh / year

CO₂ emissions savings (in total): 6.931,74 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