



## Supply of energy efficient notebooks – part 2

Republic of Slovenia, Ministry of Finance

- Contract covers 49 contracting authorities
- Replacement with energy efficient solutions (200 units)

### Last tender = benchmark

- 17.000 kWh  
electricity/year
- 5,87 t CO<sub>2</sub>/year

### GPP 2020 tender

- 10.400 kWh  
electricity/year
- 3,59 t CO<sub>2</sub>/year

### Results

- 0,56 toe/year (2,8 toe in  
total)
- 2,28 t CO<sub>2</sub>/year  
(11,4 t CO<sub>2</sub> in total)

## Contract tendered

- Three year framework agreement for the supply of energy efficient notebooks.
- Common public tender, published by the Public Procurement Directorate of the Ministry of Finance, Slovenia, in March 2014. **This tender model (part 2) describes the results of lots that were tendered for previously but did not result in any complete bids.**
- Contract to cover 49 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 two lots with 259 units.
- The Ministry of Finance signed annex to a three year general framework agreement with all tenderers that have filed complete bids. Individual contracting authorities signed annex to 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 can not supply the notebooks, individual contracting authority then calls the next candidate from the list to do so.
- Reopening competition will be executed after every 4 to 6 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 of energy efficient notebooks.

### **Specifications:**

- Offered models of notebooks must fulfill the latest ENERGY STAR standards of energy efficiency, valid on the day of tender notice (that was ENERGY STAR v 5.0).
- notebooks must be designed so that RAM is easily accessible and can be replaced
- Noise level of offered models must be measured in accordance with SIST EN ISO 7779 standard and must not exceed 33dB during writing of data on hard disk drive. Figure must be marked with LpAm label in dB.
- Upon contracting authorities demand, the supplier will have to cart off old notebooks that will be replaced with new ones, 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 notebook to individual contracting authority, supplier will also have to provide instruction book on lowering energy consumption in Slovenian language. Instructions must include at least:

- Informations on factors that include energy consumption (e.g. standby and hibernation settings, screen luminance, screen dimming, USB ports, turned on wireless connection, etc.) and ways to save energy, related to this factors.
- Instructions on how to adjust settings that effect energy consumption and prolong notebook battery autonomy (adjusting screen luminance, turning off screen saver, turning on energy saving mode, etc.)
- Informations on ways to prolong battery life span (ways of charging, discharging, etc.)
- Warnings on how charger must be unplugged from the socket when battery is full, because even then the charger still consumes energy.
- Warnings on how even in standby and hibernation modes, notebook still consumes energy and that in is best to shut down the notebook in case of longer disuse.



**Market response:** For lot 1 the contracting authority received one final bid. For lot 5 the contracting authority received no bids (see table below).

Lot	Estimated quantity of notebooks	Nr. of received bids	Nr. of complete bids
Lot 5: Large notebook	59	0	0
Lot 6: Mini notebook	200	1	1

## Criteria development

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

## Results

200 notebooks were purchased. Our estimate is that devices will be used at least five years.

Low Carbon Solution	CO <sub>2</sub> emissions
GPP 2020	3,59 t CO <sub>2</sub> /year
Last Tender (Benchmark)	5,87 t CO <sub>2</sub> /year
Savings	2,28 t CO <sub>2</sub> /year

Electricity consumption	Electricity consumption
GPP 2020	10.400 kWh/year
Last Tender (Benchmark)	17.000 kWh/year
Savings	6.600 kWh/year (0,56 toe/year)

### Calculation basis

Calculation is based on the office-ICT-calculator of GPP 2020 (version 19.5.2014). Data inputs for GPP 2020 tender are supplied by the Public Procurement Directorate of the Ministry of Finance. 200 notebooks were purchased with an average Wattages: Idle 8,7 W, Sleep 0,4 W and Off 0,2 W. Compared to last tender (=Energy Star) savings of electricity and CO<sub>2</sub> emissions were calculated, on the following basis:

#### Electricity:

Last tender: 85 kWh (value taken from the calculator) / notebook / year \* 200 notebooks purchased = 17.000 kWh / year

Low carbon solution: 52 kWh (value taken from the calculator) / notebook / year \* 200 notebooks purchased = 10.400 kWh / year

From which follows: 17.000 – 10.400 = savings of 6.600 kWh / year

#### CO<sub>2</sub> emissions:

Last tender: 17.000 kWh / year \* 0,345 (CO<sub>2</sub> emissions / kWh for Slovenia) = 5.865 kg / year

Low carbon solution: 10.400 kWh / year \* 0,345 (CO<sub>2</sub> emissions / kWh for Slovenia) = 3.588 kg / year

From which follows: 5.865 – 3.588 = 2.277 kg CO<sub>2</sub> / 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.

## Contact

Matjaž Uhan  
Ministry of Finance  
Slovenia  
[matjaz.uhan@mf-rs.si](mailto:matjaz.uhan@mf-rs.si)  
Tel. +386 1 369 5426

Tender accessible at: [www.djn.mf.gov.si/javna-narocila/arhiv-javnih-narocil](http://www.djn.mf.gov.si/javna-narocila/arhiv-javnih-narocil)

