



Supply of energy efficient notebooks

Republic of Slovenia, Ministry of Finance

- Contract covers 49 contracting authorities
- Replacement with energy efficient solutions (more than 3,650 units)



Last tender = benchmark

- 311.610 kWh electricity/year
- 107.505,45 kg CO₂/year

GPP 2020 tender

- 216.294 kWh electricity/year
- 74.621,43 kg CO₂/year

Results

- 8,19 toe/year (24,57 toe in total)
- 32,88 t CO₂/year (68,64 t CO₂ 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 November 2013.
- 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 ten sections with 3.925 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 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: In ten sections contracting authority received bids of twelve different bidders that filed bids for different sections.

Lot	Estimated quantity of notebooks	Nr. of received bids	Nr. of complete bids
Lot 1: Standard notebook	1.089	12	7
Lot 2: Standard notebook + docking station	905	12	7
Lot 3: Powerful notebook	356	10	7
Lot 4: Powerful notebook + docking station	402	10	7
Lot 5: Large notebook	59	6	0
Lot 6: Mini notebook	200	2	0
Lot 7: Lightweight notebook	279	11	8
Lot 8: Lightweight notebook + docking station	338	11	8
Lot 9: Semi-rugged notebook + docking station	283	2	2
Lot 10: Powerful notebook	14	7	6

For sections 5 in 6 in which no bids were filed, Ministry of Finance is in process of ongoing negotiations based on 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 3,666 notebooks were purchased.

Low Carbon Solution	CO ₂ emissions
GPP 2020	74,62 t CO ₂ /year
Last Tender (Benchmark)	107,50 t CO ₂ /year
Savings	32,88 t CO ₂ /year

Electricity consumption	Electricity consumption
GPP 2020	216.294 kWh/year
Last Tender (Benchmark)	311.610 kWh/year
Savings	95.316 kWh/year (8,19 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. 3.666 notebooks were purchased with an average Wattages: Idle 9,9 W, Sleep 0,9 W and Off 0,4 W. Compared to last tender (=Energy Star) savings of electricity and CO₂ emissions were calculated, on the following basis:

Electricity:

Last tender: 85 kWh (value taken from the calculator) / notebook / year * 3.666 notebooks purchased = 311.610 kWh / year

Low carbon solution: 59 kWh (value taken from the calculator) / notebook / year * 3.666 notebooks purchased = 216.294 kWh / year

From which follows: 311.610 – 216.294 = savings of 95.316 kWh / year

CO2 emissions:

Last tender: 311.610 kWh / year * 0,345 (CO₂ emissions / kWh for Slovenia) = 107.505,45 kg / year

Low carbon solution: 216.294 kWh / year * 0,345 (CO₂ emissions / kWh for Slovenia) = 74.621,43 kg / year

From which follows: 107.505,45 – 74.621,43 = 32.884,02 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