



## Energy Audit Services

Federal Procurement Agency, Austria

- Reduction of CO<sub>2</sub>-emissions: 23 t CO<sub>2</sub>/year and object
- Reduction of energy: 102 MWh/year and object



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### Benchmark

Current energy consumption  
(without an Energy Audit)

- 153.3 t CO<sub>2</sub>/year
- 58.4 toe/year

### GPP 2020 tender

Energy Audit incl. measures to  
reduce the energy consumption

- 130.3 t CO<sub>2</sub>/year
- 49.6 toe/year

### Results

- Reduction of 23 t CO<sub>2</sub>/year and object, 1,150 t CO<sub>2</sub>/10 years and 5 objects
- Savings of 8.8 toe/year, 440 toe/10 years and 5 objects

## Contract tendered

- Call for tender by the Austrian Federal Procurement Agency for the service „Energy Audit“.
- A minimum of nine public authorities are going to procure the service.
- Framework agreement with a duration of 24 months.
- The call for tender included 4 lots:  
Lot 1: buildings  
Lot 2: buildings and processes (for example laboratories);  
Lot 3: buildings, processes and mobility  
Lot 4: data centres
- Maximum total value: around 600,000 € (without VAT).

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## Procurement Approach

A competitive procedure with negotiation chosen:

1. Stage: The requests to participate of the economic operators were used to identify those willing to participate.
2. Stage: Description of the work.

The call for tenders included four lots.

### Lot 1: Buildings

Technical Specifications	Award Criteria
<ul style="list-style-type: none"> <li>- Inspection of buildings</li> <li>- Building envelope</li> <li>- Building services/equipment</li> <li>- Power plants using renewable energy</li> </ul>	<ul style="list-style-type: none"> <li>- Number of references</li> <li>- Number of certified energy auditors</li> <li>- Price</li> <li>- Time period to conduct the energy audits</li> </ul>

### Lot 2: Buildings and Processes

Technical Specifications	Award Criteria
<ul style="list-style-type: none"> <li>- See Lot 1</li> <li>- Other relevant processes like for example laboratories, research.</li> </ul>	<ul style="list-style-type: none"> <li>- See Lot 1</li> </ul>

### Lot 3: Buildings, Processes and Mobility

Technical Specifications	Award Criteria
<ul style="list-style-type: none"> <li>- See Lot 2</li> <li>- Route optimization</li> <li>- Training of drivers</li> <li>- Optimization of procured vehicles</li> </ul>	<ul style="list-style-type: none"> <li>- See Lot 1</li> </ul>

Lot 4: Data Centres	
<b>Technical Specifications</b>	<b>Award Criteria</b>
- See Lot 2 (special processes in data centres)	- See Lot 1

#### Contract conditions

- Special arrangements for the purchasers duty to cooperate
- Special “service level agreements”

## Criteria Development

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The tendered service, the performance of energy audits, is fundamental for the planning and the implementation of measures to reduce the energy consumption (heat and electricity) of public „objects“ (like buildings). Therefore, the tendered service reduces the environmental impact. Besides, no specific environmental criteria were included in the tender.

Before the publication of the actual call for tender, a dialog with the potential tenderer was conducted. Based on the results of this dialog, the documents of the call for tender were compiled. The documents of the call for tender were elaborated during the negotiations with the bidders. The approach offered the opportunity to the bidders to clarify their information needs and to present the audits they intended to offer.

## Results

The reduction of CO<sub>2</sub>-emissions and energy are calculated first of all per object. It is assumed that a minimum of 5 public authorities for whom the Energy Audit isn't necessary, are going to procure the Energy Audit nonetheless.

	CO <sub>2</sub> e Emissions	Energy consumption
Low Carbon Solution	130.3 t CO <sub>2</sub> e/year	49.6 toe/year
Benchmark	153.3 t CO <sub>2</sub> e/year	58.4 toe/year
Annual savings per object	23 t CO <sub>2</sub> e/year	8.8 toe/year
Total savings (for 5 objects and 10 years)	1,150 t CO <sub>2</sub> e	440 toe

## Calculation basis

The calculation is based on the average object, the Austrian Federal Agencies were using in the year 2012:

- Volume (heating): 26,646 m<sup>3</sup>
- Energy consumption for the heat supply: 490 MWh/year (energy source: around 60 % district heat and 40 % natural gas)
- Electricity consumption: 189 MWh/year

We assume that the energy savings measures that are implemented due to the energy audit will reduce 15 % of the energy consumption (heat and electricity). This equals an energy reduction of **101.9 MWh/year**:

- Reduction of 44.1 MWh/year from district heat
- Reduction of 29.4 MWh/year from natural gas
- Reduction of 28.4 MWh/year from electricity

We used the GPP2020-calculator for energy contracting with the following emission-factors:

- District heat: 0.270 t CO<sub>2</sub>/MWh
- Natural gas: 2.503 t CO<sub>2</sub>/m<sup>3</sup> and 0.222 t CO<sub>2</sub>/MWh
- Austrian electricity mix: 0.161 t CO<sub>2</sub>/MWh



## Lessons learned

The negotiated procedure was very helpful. Without the negotiations with the bidders, many details about the processing of the audits were not arranged as well as they are now.

## Contact

Bundesbeschaffung GmbH

Jasmin Berghammer

[jasmin.berghammer@bbg.gv.at](mailto:jasmin.berghammer@bbg.gv.at)

Tel.: +43 1 245 70-345

## About GPP 2020



GPP 2020 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, GPP 2020 will implement more than 100 low-carbon tenders, which will directly result in substantial CO<sub>2</sub> savings. Moreover, GPP 2020 is running a capacity building programme that includes trainings and exchange. – [www.gpp2020.eu](http://www.gpp2020.eu)

## About PRIMES



Across six countries in Europe; Denmark, Sweden, Latvia, Croatia, France and Italy, PRIMES project seeks to help municipalities 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 organisations in order to overcome barriers and implement Green Public Purchasing. This will consequently result in energy savings and CO<sub>2</sub> reductions. – [www.primes-eu.net](http://www.primes-eu.net)



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