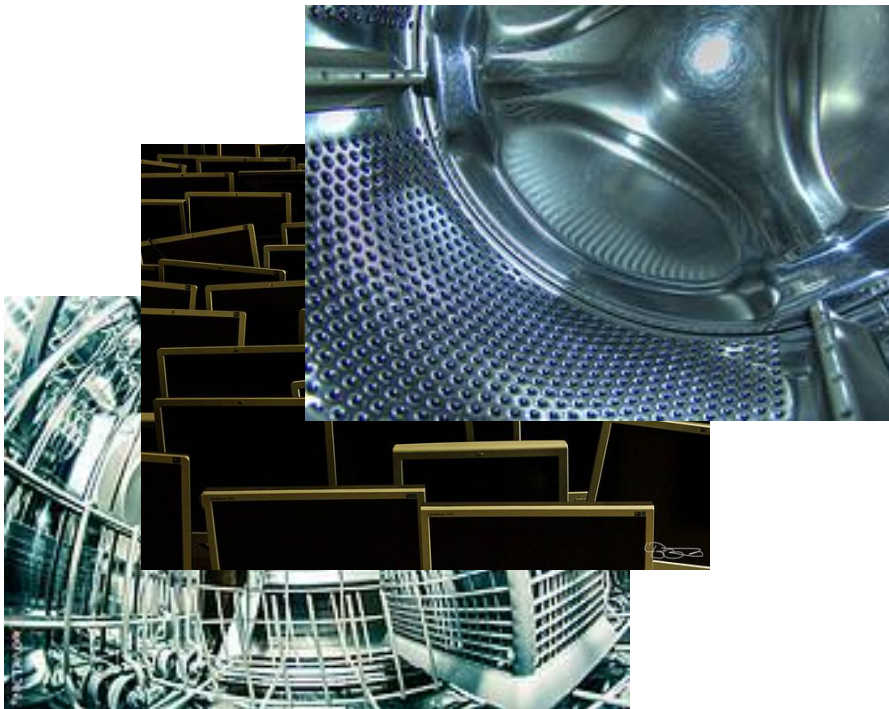




## Purchase of white and brown goods 2014

### Federal Procurement Agency Austria

- 20 % reduction of CO<sub>2</sub> emissions
- 20 % energy savings



#### Last tender

- Lower energy efficiency (category A)
- 624 t CO<sub>2</sub> emissions
- 333 toe energy

#### GPP 2020 tender

- Higher energy efficiency (category A++)
- 500 t CO<sub>2</sub> emissions
- 267 toe energy

#### Results

- 124 t CO<sub>2</sub> savings
- 66 toe energy savings

## Contract tendered

- Tender for white and brown goods by the Federal Procurement Agency (FPA)
- 2 Lots tendered – Lot 1: white goods; Lot 2: brown goods
- 24-month framework contract, option of a 12-month extension
- Volume white goods (zero-rated for VAT): 825,000 € (annual), 2,475,000 € (36-month total)
- Volume brown goods (zero-rated for VAT): 425,000 € (annual), 1,275,000 € (36-month total)
- Tendered white goods: refrigerators, freezers, fridge-freezers, dishwashers, washing machines, dryers, ovens, stoves, hobs, microwaves, fully automated coffee machines, food processors, water boilers, toasters, hand mixers, vacuum cleaners, steam irons, steam iron stations, hand dryers, fans, air washers, and air conditioning units
- Tendered brown goods: LCD TVs, DVD recorders, HDTV digital receivers, hi-fi systems, portable CD radios, camcorders, digital cameras, and navigation devices
- Products of the framework contract taken into account for the GPP 2020 project: 420 **dishwashers**, 300 **washing machines**, 110 **dryers**, and 660 **LCD TVs**
- The products offered in the tender are available to all customers of the Federal Procurement Agency. This comprises all ministries as well as cities, municipalities, universities, hospitals and outsourced companies owned by public authorities.
- Two suppliers (contractual partners)
- This tender exceeds the environmental criteria defined in the Austrian Action Plan for Sustainable Public Procurement.



## Procurement approach

Before the tender started as an open procedure, a discussion forum with the Austrian Federal Economic Chamber and manufacturers was arranged in order to increase the number of bidders. The bidders did not meet all required criteria after the bid opening. With regard to some criteria, offers contained some deviations from precise requirements, even though there was no objective reason why the requested criteria could not be met. This concerned, for example, criteria such as noise level. For one of the lots there was only one accurate offer, for the other lot none. Thus, the tender was set up newly as a negotiated procedure (according to § 29 Abs 2 Z 1 BVergG 2006). This meant that the group of bidders as well as the key criteria did not have to be changed and potentially allowed the Federal Procurement Agency (FPA) to conclude the framework contract with a minimum number of suppliers (intended: three, ultimately feasible: two). This way, the range of products variants (for example washing machines with a capacity of 6 kg, 7 kg and 8 kg) and brands that met the sustainability criteria could be extended. FPA encouraged the suppliers to offer as many products as possible.

**Lot 1: 420 dishwashers, 300 washing machines, 110 dryers****Technical specifications dishwashers**

- Energy efficiency: min. A++
- Energy consumption (280 standard rinse cycles): max. 300 kWh/year
- Water consumption (280 standard rinse cycles): max. 3,080 litre/year
- Noise level: max. 44 dB(A) re1pW
- Suppliers must provide spare parts for 5 years
- The packaging must not contain any halogens or halogen bonds

**Verification:** suppliers provide product data and additionally declares that their products meet the requirements

**Technical specifications washing machines**

- Energy efficiency: min. A++
- Energy consumption: max. 200 kWh/year
- Water consumption: max. 12,320 litre/year
- Noise level washing: max. 52 dB(A)
- Noise level spin-dry: max. 73 dB(A)
- Suppliers must provide spare parts for 5 years
- The packaging must not contain any halogens or halogen bonds

**Verification:** suppliers provide product data and additionally declares that their products meet the requirements

**Technical specifications dryers**

- Energy efficiency: min. A+
- Heat pumps technology

**Verification:** suppliers provide product data and additionally declare that their products meet the requirements

**Award criteria**

- Award criteria do not consider environmental requirements but exclusively refer to the best value principle, a large variety of product variants and brands as well as product-group-related discounts



**Lot 2: 660 LCD TVs**

**Technical specifications**

- Energy efficiency: min. A
- Energy consumption on-state: max. 100 W
- Energy consumption stand-by: max. 0.5 W

**Verification:** suppliers provide product data and additionally declare that their products meet the requirements

**Award criteria**

- Award criteria do not consider environmental requirements but exclusively refer to the best value principle, a large variety of product variants and brands as well as product-group-related discounts



**Contract clauses**

Suppliers have to provide all spare parts for 5 years. This ensures that the products will be repaired rather than thrown away.

## Criteria development

Criteria suggested by IFZ were provided in the form of quite elaborated 6-7-page dossiers. The criteria suggested in these dossiers were developed in three steps. First, it was oriented towards the EU eco-design and energy label regulations. This orientation facilitates verification. Second, IFZ reflected on criteria of the Austrian Action Plan for Sustainable Public Procurement currently under revision and also checked the rigour of eco-labels (e.g. Blue Angel eco-label). This part was guided by the question of how rigorous requirements can be. Third, market research was undertaken, regarding the availability, prices, and quality of products that meet rather demanding criteria. This part of the criteria development covered online investigation (e.g. [www.topprodukte.at](http://www.topprodukte.at)) and a review of product testing magazines (Stiftung Warentest, Ökotest, Konsument).

Based on this, the IFZ and the FPA identified potential for exceeding the specification of the Austrian Action Plan. The biggest leverage for white and brown goods is the energy consumption during the usage, which is why this factor was mainly improved.

## Results

*These results were calculated by IFZ, using an approved methodology.*

	CO <sub>2</sub> emissions	Energy consumption
Low-Carbon Solution	500 t	267 toe
Last Tender	624 t	333 toe
Savings	124 t	66 toe

Compared to the last tender, the following results were accomplished:

- 20 % reduction of CO<sub>2</sub> emissions
- 20 % energy savings



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### Calculation basis

The calculation of the energy and CO<sub>2</sub> savings is based on the different energy consumption of the appliances in the use phase.

New **washing machines: 173 kWh/a**; previous washing machines: **204 kWh/a** (lifetime: 14 years)

New **dish washers: 258 kWh/a**; previous dish washers: **327 kWh/a** (lifetime: 15 years)

New **dryers: 246 kWh/a**; previous dryers: **320 kWh/a** (lifetime: 13 years)

New **TVs: 97 kWh/a**; previous TVs: **121 kWh/a** (lifetime: 8 years)

## Lessons learned

### Background information

The Federal Procurement Agency (FPA) is commissioned by law to pool and standardise needs of the public sector, above all of the federal ministries. FPA should contribute to an efficient administration and optimise cost effectiveness. This is especially of high relevance against the background of far reaching budget cutbacks in most departments. Purchasing bodies of the federal ministries are generally obliged to buy within the framework contracts serviced by the FPA, except for: purchasing bodies can buy products and services from third parties if those offer these at a reduced rate (see § 4 Abs. 2 Z 2 Bundesgesetz über die Errichtung einer Bundesbeschaffung GmbH). Generally, the spectrum of product variants and brands serviced by FPA has to be as broad as possible because of its diverse customer wishes.

*During the tender for white and brown good, the following main learnings could be gained:*

### ***Energy efficiency category***

According to the initial propositions of IFZ, the highest energy efficiency category (A+++), should be claimed for most of the white goods. The tender receded from these claims and took a step back (A++), mainly because of two reasons:

- FPA cannot offer a contract with highest sustainability criteria, which is often connected to higher prices, while customers are not capable of using this contract because of tough budget targets and restrictions.
- The amount of products with the highest energy efficiency category was too low in order to guarantee enough offers and a comprehensive and diverse range of product variants and brands.

The feasibility of replication is very high. The criteria were defined, amongst others, on the basis of the EU energy label. Hence any country can use these criteria. Furthermore, the initially chosen open tender procedure is easy to conduct. Yet, it is advantageous to arrange a discussion forum with manufacturers in the forefront in order to check if suppliers can offer products that fulfil all criteria required.

## Contact

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## 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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