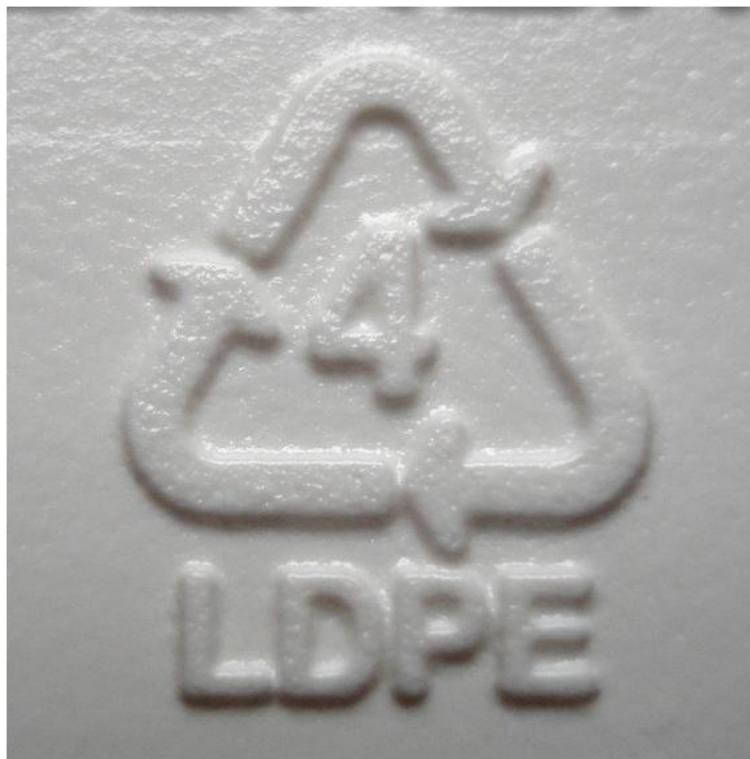




## Purchase of recycled LDPE bags

Environmental protection and energy efficiency fund, Croatia

- CO<sub>2</sub> savings through purchase of recycled bags
- Environment protection improvement
- Improvement of organization's social responsible profile



### Standard product = benchmark

- 134,8 t CO<sub>2</sub>e emissions
- 49,9 toe energy

### GPP 2020 tender

- 77,9 t CO<sub>2</sub>e emissions
- 23,6 toe energy

### Results

- 26,3 toe annual energy savings
- 56,9 t CO<sub>2</sub>e annual emissions savings

## Contract tendered

- Tender for recycled LDPE bags
- 6.663.000 bags made of recycled material purchased in order to environment protection improvement, especially CO<sub>2</sub> savings and clean air promotion by using sustainable technology solutions
- 1 year supply contract
- Total cost: 1,000,000 € (excluding VAT)

## Procurement approach

Tendering followed the open procedure, and was divided into four lots:

Recycled bags	
<p><b>Technical specifications</b></p> <ul style="list-style-type: none"> <li>• Material: Low density polyethylene(LDPE) , a minimum share of 95 % recycled material</li> <li>• Total carrying weigh: 3kg</li> <li>• Bags dimensions ( a , b , e , thickness ) : 1100 mm , 700 mm , 300 mm , 40 um</li> <li>• Total amount of purchase: 6.663.000</li> </ul> <p><b>Verification:</b> For the bags , there was testing: 1. dimension ( length , width , set thickness , accommodation fingerprint ) 2. Material 3.transparency ( on artificial light this text must be readable through a single foil bags ) 4. print quality ( rinsing with water and ethyl alcohol , wear resistance )</p>	<p><b>Award criteria:</b> Lowest price</p> <p><b>Eligibility of bidders:</b> The bidder/tenderer must proof that offer fulfils all technical specifications and requirements in form of statement signed by responsible and authorized person.</p>

### Contract clauses

The following contract clauses were applied:

- thickness tolerance for bags under 1 and 2  $\pm 15$  %
- thickness tolerance for bags under 3, 4 and 5  $\pm 10$  %
- tolerance dimensions of the ( length )  $\pm 10$  mm
- tolerance dimensions b ( width )  $\pm 5$  mm
- tolerance dimension is ( set )  $\pm 5$  mm
- tolerance range bags from 1 to 5 .; ( 2  $\times$  ( b + e ) )  $\pm 10$  mm



## Criteria development

Environmental protection, social responsibility strengthening and improving sustainable consumption of energy in public companies was the main objective of recycled bags purchase

The ambition of the public tender was to set standards for further purchasing and to raise public awareness on environmental protection.

## Results

The results are as follows.

	CO <sub>2</sub> e emissions	Energy consumption
Low Carbon Solution	77,9 t CO <sub>2</sub> e/year	23,6 toe/year
„standard product“	134,8 t CO <sub>2</sub> e/year	49,9 toe/year
Total savings	56,9 t CO <sub>2</sub> e	26,3 toe

 3

### Calculation basis

Energy savings and CO<sub>2</sub> emission reductions were calculated based on “Ökobilanz von Tragetaschen” methodology, a research paper made by Swiss Federal Laboratories for Materials Testing and Research

## Lessons learned

LDPE bags are more resilient, full recyclable and have significant reduction of CO<sub>2</sub> when compared to purchase of standard bags.

Environmental protection and energy efficiency fund gained experience will enable procurers to do better market analysis and define more ambitious demands on energy efficiency within future tendering processes and determined in-house standards.

## Contact

Environmental protection and energy efficiency fund

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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)

4



## 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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