

# Topten Cars and Vans Guidelines for Frontrunner Public Procurers



Photo courtesy of  
autogastechnik.eu

## What is Topten?

Topten is a European web portal helping buyers to find **the most energy efficient products available in Europe**.

The cars and vans displayed on [www.topten.info](http://www.topten.info) all meet the criteria contained in these guidelines. So procurers can ascertain that there is a sufficient range of products available on the market.

On [www.topten.info](http://www.topten.info) you'll also find links to national topten sites of a large number of European countries. [www.topten.info](http://www.topten.info)

The European Commission's **GPP website** also contains valuable legal and practical guidance together with procurement criteria for a range of commonly procured products and services.

<b>Product group covered:</b>	Cars and vans with combustion engines
<b>Product availability:</b>	All products listed on <a href="http://www.topten.info">www.topten.info</a> meet the criteria listed below
<b>Potential CO<sub>2</sub> savings:</b>	Excluding electric vehicles, the most efficient mini cars have emissions as low as 89 gCO <sub>2</sub> /km. The best upper middle class car emits 129 gCO <sub>2</sub> /km, the best large van 126 gCO <sub>2</sub> /km.
<b>Potential fuel and cost savings:</b>	With fuel consumption as little as 3.3 litres (diesel) or 3.9 litres (petrol) per 100 km potential fuel cost savings are highly significant with Topten cars.

## Procurement criteria – Updated: March 2010

The following criteria can be inserted directly into tendering documents. The specifications are updated continuously. The newest versions are always available at [www.topten.info](http://www.topten.info).

<b>Subject matter:</b>	<b>Purchase of cars and vans with high environmental performance</b>										
<b>Technical specifications:</b>											
1. All cars and vans must achieve the following minimum Eco Point rating and not exceed the maximum permissible emissions shown below for their vehicle category. The calculation scheme for Eco Points is included below.											
Category	Length of car (l)	Minimum Eco Points	Maximum CO <sub>2</sub> emissions (g/km)	Maximum noise emissions (dB(A))							
Mini	$l < 3.6 \text{ m}$	61.8	180	75							
Small cars	$3.6\text{m} \leq l < 4.0 \text{ m}$	57.6	180	75							
Compacts	$4.0\text{m} \leq l < 4.4 \text{ m}$	56.8	180	75							
Middle class	$4.4\text{m} \leq l < 4.8 \text{ m}$	49.5	180	75							
Upper middle class	$4.8\text{m} \leq l < 5.0 \text{ m}$	37	180	75							
Vans with 5 seats	$5.0\text{m} < l$	45.6	180	75							
Vans, 6 or more seats	$5.0\text{m} < l$	39	180	75							
<b>Calculation of Eco Points</b>											
The four categories of environmental effects contribute to the calculation of the Eco-points are as follows:											
<ul style="list-style-type: none"> <li>▪ Category A: CO<sub>2</sub> emissions – weighting: 60%</li> <li>▪ Category B: noise emissions – weighting: 20%</li> <li>▪ Category C: air pollutants affecting human health – weighting: 15%</li> <li>▪ Category D: nature pollution – weighting: 5%</li> </ul>											
<b>Category A: CO<sub>2</sub> emissions</b>											
A vehicle's CO <sub>2</sub> emissions are rated here with a linear function. For CO <sub>2</sub> emissions of 60 grams per kilometre 10 points are granted, while 180 grams of CO <sub>2</sub> per kilometre score 0 points. The precise formula for calculating the category A Eco Points is: Eco Points = $(180 - x) \cdot 0.0833$ , $x$ = CO <sub>2</sub> emissions in g/km											
<b>Category B: noise emissions</b>											
The rating is based on a model's indications of the type test. The scale runs linearly between 10 points for 65 dB(A) and 0 points for 75 dB(A) and more, as shown below:											
dB(A)	65	66	67	68	69	70	71	72	73	74	75
Points	10	9	8	7	6	5	4	3	2	1	0

### Categories C and D

These categories are both rated according to the same scheme. A car's score in these categories is defined by its emission class (Euro 4, Euro 5 or Euro 6), according to the following table:

Emission Class	C: Air pollutants points	D: Nature pollution points
Euro 4 petrol	9.13	6.8
Euro 4 diesel	5.0	0.0
Euro 5 petrol	9.35	7.6
Euro 5 diesel	6.4	2.8
Euro 6 diesel	8.4	6.8

### Total Eco points

For a vehicle's total Eco points the scores of the single environmental effect categories are weighted, added up and multiplied by 10:

Eco points = ((Cat A score)\*0.6 + (Cat B score)\*0.2 + (Cat C score)\*0.15 + (Cat D score)\*0.05) \*10

*Verification:* Bidders must supply technical data and test results, together with the above calculation giving the Eco Point rating of the car/van offered.

### Notes on implementation

- The Eco Points rating system was developed by the Institut für Energie- und Umweltforschung (IFEU), by order of the German Office for Environment (Bundesumweltamt) and is used by ATE (Swiss association for traffic and environment) together with its sister organisations – the traffic associations of Germany and Austria.

### Advice and support

If you would like further assistance in using the information presented here in your own procurement actions or more information on Topten Pro please contact the Procura+ team at:

[Procurement@iclei.org](mailto:Procurement@iclei.org)

+49 761 368 9244

An expression of interest form is also available on [www.topten.info/pro](http://www.topten.info/pro) for public authorities who would like support to apply these criteria in an upcoming procurement process.



### What is Procura+?

Procura+ is an initiative designed to help support public authorities in implementing Sustainable Procurement. The campaign is run by ICLEI – Local Governments for Sustainability – and is the Topten partner for public authorities. [www.procuraplus.org](http://www.procuraplus.org)