

Computer Monitors

Guidelines for Frontrunner Public Procurers



Photo courtesy of Dreamstime.com

What is Topten?

- Topten.eu is a European web portal helping buyers to find **the most energy efficient products available in Europe**. Links to national Topten websites from a number of European countries are also available.
- All monitors displayed on www.topten.eu meet the criteria contained in these guidelines. Procurers can therefore use the website to check the availability of products currently on the market, which meet the **Topten selection criteria**.
- **Sample tender documents** are provided on www.topten.eu/professional to demonstrate how the criteria can be applied in practice.
- The European Commission's [GPP website](http://www.gpp.eu) also contains valuable legal and practical guidance together with procurement criteria for a range of commonly procured products and services.

Product group covered:	All computer displays/monitors from 15" upwards
Product availability:	All products listed on www.topten.eu meet the criteria listed below
Potential energy savings:¹	<p>The power of an inefficient 17" screen is around 25 W, while the best performing Topten model is only 16 W. The power of the best Topten 19" screen is only 13 W, which is 55% less than inefficient models of 29 W.</p> <p>Differences in electricity use between models with larger screens are even more significant. The power of a 22" inefficient screen is 39 W, while the best Topten model is less than 16 W. 24" screen power ranges from 54 W for an inefficient model, to less than 19 W for a Topten model, a 65% reduction.</p>
Potential cost savings:²	<p>Using the most efficient 17" model leads to cost savings of 32% on electricity bills compared to an inefficient model, which is about €7 per machine over 5 years. For a 19" monitor, costs are cut by half, meaning savings of €13 per unit.</p> <p>64% cost savings are possible using the most efficient 22" screen, equating to €23 per machine and 67% savings can be made with Topten 24" monitors compared to an inefficient model, saving €33 over 5 years for every unit bought.</p>

¹ These represent rough figures comparing the best product currently available, with an inefficient model in On mode – see www.topten.eu for more details.

² Based on an electricity price of €0.15/kWh

Procurement criteria – Updated: June 2013

The following criteria can be inserted directly into tendering documents. The specifications are updated continuously. The newest versions are always available at www.topten.eu.

Subject matter:	Purchase of energy efficient computer monitors										
<p>Technical specifications:</p> <ol style="list-style-type: none"> Maximum Sleep and Off-mode power: 1.0 watt The On-mode power must be measured according to the ENERGY STAR Program Requirements for Displays Version 5.1 and must not exceed the following maximum values: <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Diagonal (inches)</th> <th>Maximum power On-mode</th> </tr> </thead> <tbody> <tr> <td>$15 \leq d < 17$</td> <td>13 watts</td> </tr> <tr> <td>$17 \leq d < 20$</td> <td>18 watts</td> </tr> <tr> <td>$20 \leq d < 22$</td> <td>20 watts</td> </tr> <tr> <td>$d \geq 22$</td> <td>22 watts</td> </tr> </tbody> </table> <p>Verification: Products bearing the ENERGY STAR Displays Version 5.1 label with maximum On-mode power corresponding to the above values or lower, with a maximum Sleep and Off-mode power of 1.0 watt will be deemed to comply. Alternatively, bidders may demonstrate compliance with the above requirements by another objective third-party means or by supplying test results in respect of their product demonstrating that the criteria are met. Test results for all modes should be provided using the ENERGY STAR test method.</p> <ol style="list-style-type: none"> Environmental and Ergonomic Features (optional): All products must meet the criteria of the TCO '03, '06, 5.0 or TCO Edge labels, or equivalent criteria. Compliance with these criteria is required in respect of the product, not the company itself. <p>Verification: All products carrying the TCO '03, '06, 5.0 or TCO Edge labels will be accepted. Alternatively bidders may provide documentation to demonstrate that equivalent criteria are met.</p> 		Diagonal (inches)	Maximum power On-mode	$15 \leq d < 17$	13 watts	$17 \leq d < 20$	18 watts	$20 \leq d < 22$	20 watts	$d \geq 22$	22 watts
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Notes on implementation:

Optional specification for Environmental and Ergonomic Features - It is recommended to also apply this criterion to ensure an excellent ergonomic performance as well as to address other environmental criteria. However, if a product does not have the TCO label and instead provides extensive technical documentation this may require additional work on behalf of the procurer. Therefore it is listed here as optional. In practice, almost all products meeting the energy performance criteria will also have the TCO label.

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

+49 761 368 9248

An expression of interest form is also available on www.topten.eu/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 support public authorities in implementing Sustainable Procurement. The campaign is run by ICLEI – Local Governments for Sustainability, the Topten partner for public authorities.

www.procuraplus.org