

ENERGY STAR Program Requirements for Displays 5.0 – Draft 2 – Comments from the ECESB Technical Working Group

We present in the following a summary of comments from the European Community Energy Star Board Technical Working Group (ECESB WG) on ENERGY STAR Program Requirements for Displays 5.0 – Draft 2. The comments are public.

Testing products at fixed luminance levels

The ECESB WG does not support the proposal of testing at the proposed fixed luminance levels.

We believe that most consumers do not change the default settings of the display and therefore the power consumption measured and stated by the manufacturer should correspond to the default settings.

Comparing the factory default luminance in the dataset with the proposed fixed test luminance levels shows that 64 % of the products are shipped with luminance levels higher than the proposed fixed test luminance levels. 15 % are shipped with 50 % higher luminance levels. Following the proposed test procedure, it means that more than half of the consumers cannot trust the power consumption stated by the manufacturers.

The proposed test procedure is furthermore not in line with the IEC 62087 ed. 2.0 for testing of TVs. In principle, it does not have to be in line with the IEC standard, however, if there is no reason not to be in line, we believe it should be in order not to confuse the industry and the consumers by having two different measurement methods for similar products.

We do not see any problems in testing at default settings. However, the default settings could be combined with a minimum luminance setting either as a percentage of maximum or a fixed level.

Resolution vs area for levels for on mode requirement

The ECSEB WG is still concerned with the inclusion of the resolution in the formula because the correlation between area and power consumption is above 0.9. The technical or statistical reason to include the resolution should be explained.

Sleep and off mode requirements

The ECESB WG supports 1 W requirement for both sleep and off modes also to be consistent with the European EuP standby requirements. Based on the dataset we see the difficulties in reducing the requirement of both sleep and off to 1 W for all sizes. However, we recommend EPA to work with the industry to lower the sleep and off modes values to 1 W.

Power management

The ECESB WG supports the broad power management requirements that apply to all displays comprised by the specification.