

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



OFFICE OF AIR AND RADIATION

August 11, 2016

Dear ENERGY STAR® Displays Partner or Other Interested Stakeholder:

The Version 7.0 ENERGY STAR Displays specification took effect on July 1, 2016 and included within its scope Keyboard-Video-Mouse (KVM) and Keyboard-Monitor-Mouse (KMM) products. These are monitors integrated with a keyboard and mouse that permit input/output connections with one (KMM) or multiple (KVM) computers or servers. Recently, a stakeholder has raised concerns regarding the applicability of the Version 7.0 monitor duty cycle to KVM and KMM products. This stakeholder asserts that KVM/KMM typical usage differs from that of standard computer monitors.

The stakeholder notes that KVM/KMM products are in Sleep Mode for up to 95% of the time, rather than 65% of the time as noted in the Typical Energy Consumption (TEC) equation for monitors. They are often located in a pull-out drawer in a server rack, only waking when opened to allow for monitoring and diagnostics of connected servers. After work is performed, the display is folded back down and stowed into the rack, where it reenters Sleep Mode.

EPA seeks additional feedback from stakeholders on typical usage for KVM/KMM products, specifically:

1. What is the typical usage pattern for these products?
2. Are there studies of the usage pattern of these products?
3. Is there significant use of KVMs/KMMs outside of data centers/network rooms?
4. Are there ways of differentiating between KVMs/KMMs intended for different applications?
5. What are the modes of operation of KVM/KMMs?
6. How many hours per day are KVM/KMMs in each of these modes?
7. What is the average Sleep Mode and On Mode power consumption of a typical 2016-2017 KVM/KMM model?
8. What are the design and manufacturing refresh cycles for KVM/KMM products? Do they differ from those of typical computer monitors and signage displays?

EPA requests that stakeholders submit feedback to [displays@energystar.gov](mailto:displays@energystar.gov) no later than September 9, 2016. Please contact me at [Radulovic.verena@epa.gov](mailto:Radulovic.verena@epa.gov) or (202) 343-9845 or Matt Malinowski at [matt.malinowski@icfi.com](mailto:matt.malinowski@icfi.com) or (202) 862-2693 with any questions or concerns.

Best Regards,

A handwritten signature in cursive script that reads "Verena Radulovic".

Verena Radulovic, Product Manager  
ENERGY STAR for Consumer Electronics