

Computer Monitors

REGULATORY PROPOSAL

PREPARED BY:
ENERGY EFFICIENCY BRANCH,
B.C. MINISTRY OF ENERGY, MINES AND LOW CARBON INNOVATION¹
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COMMENTS MUST BE RECEIVED BY [OCTOBER 5], 2022

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¹ For more information on the role of the Energy Efficiency Branch, see <https://www2.gov.bc.ca/gov/content/industry/electricity-alternative-energy/energy-efficiency-conservation>

PROPOSED CHANGES TO THE COMPUTER MONITORS STANDARD

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| TYPE OF DEVICE (PROPOSED CHANGE) | <p>"Computer monitor" means an analog or digital device, other than a device excluded under section 67, that</p> <ul style="list-style-type: none"> a) is designed primarily to display computer-generated signals for viewing by one person in a desk-based environment, b) has a diagonal screen size of <ul style="list-style-type: none"> i. not less than 17 inches, and ii. not more than 61 inches, c) has a pixel density of greater than 5 000 pixels per square inch, and d) is composed of a display screen and associated electronics; <p>"Gaming monitor" means a computer monitor that</p> <ul style="list-style-type: none"> a) is capable of adjusting the monitor refresh rate with the frame rate of the video content, b) supports a continuously variable refresh rate ranging across a factor of at least 1.75 times the minimum refresh rate supported, and c) may include incremental hardware-based assistance. <p>(Proposed Addition), "Fast refresh rate gaming monitor" means a gaming monitor with a supported refresh rate of 300Hz or more that includes incremental hardware-based assistance.</p> |
| ENERGY PERFORMANCE STANDARD (PROPOSED CHANGE) | <p>Computer monitors: The proposed change will allow computer monitors with touch screen capability an additional 1 watt allowance per mode in modes where touch functionality is enabled.</p> <p>Fast refresh rate gaming monitor: The proposed change will set extra allowance for the fast refresh gaming monitor that is equivalent to the requirements set forth in California's Title 20 § 1605.3. (V) (5):</p> <ul style="list-style-type: none"> a) Fast refresh rate gaming monitor with maximum refresh rate less than 480 Hertz, $[0.0025*(MRR-300) + 0.25] * Eon_max$ b) Fast refresh rate gaming monitor with maximum refresh rate of 480 Hertz or more, $0.7 * Eon_max$ |
| TEST STANDARD | <p>The current test method is based on ENERGY STAR® Program Requirements Product Specification for Displays — Final Test Method (Rev. Sep-2015).</p> <p>No changes are proposed.</p> |

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| LABELLING & CERTIFICATION | <p>The current standard states that an energy efficiency verification label is not required for an energy device that is a computer monitor if</p> <ul style="list-style-type: none"> a) a valid certification report for the device is listed in either or both of the following: <ul style="list-style-type: none"> i. the California Energy Commission Modernized Appliance Efficiency Database System; ii. the internet accessible directory of a designated tester, and b) the certification report allows for verification that the energy standard set out in EESR is met. <p>No changes are proposed.</p> |
| EFFECTIVE DATE | The proposed effective date is January 1, 2023. |
| HARMONIZATION | <p>The Ministry of Energy, Mines and Low Carbon Innovation (Ministry) attempts, where appropriate, to harmonize with other regulatory agencies which represent larger markets than B.C.</p> <p>The proposed change is aligned with state regulations in California.</p> |
| NEED FOR REGULATION | The Ministry reviews existing standards and proposes changes to reduce regulatory burden when applicable. The proposed change will reduce regulatory burden. |
| TRANSPARENT REGULATION DEVELOPMENT | Public review and stakeholder consultation will be open for [21-days] after the publication of this document. Stakeholder consultation will be followed by regulatory drafting and submission of amendments to Cabinet for approval. |
| ACCEPTANCE | The proposed change is not expected to impact market acceptance of touch screen monitors or fast rate gaming monitor. |
| IMPACT ON CONSUMERS | The proposed change will ensure consumers have access to touch screen monitors and fast refresh rate gaming monitors. |
| IMPACT ON MANUFACTURERS AND RETAILERS | The proposed changes will reduce regulatory burden and ease of trade for manufacturers and distributors. |

CONTACT INFORMATION

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| DATE | September 14, 2022 |