

Energy Efficiency Standards Regulation - Amendment 7

The Ministry of Energy, Mines and Petroleum Resources (the Ministry) is responsible for the Energy Efficiency Standards Regulation (EESR). The EESR sets standards for devices that use, control, or affect the use of energy such as windows, appliances, space heaters, water heaters, lighting and some industrial equipment. The Ministry consults stakeholders on proposals for new standards and updates to existing standards on a regular basis. There have been six major amendments to the EESR between 2006 and 2018.

The Province began formal consultation on the seventh amendment in 2019. On February 16, 2021, it was approved and ordered by the Lieutenant Governor in Council. The amendment includes new and updated standards for computers and monitors, residential windows, residential gas boilers, and commercial gas boilers, as well as regulatory upkeep.

For further information on Energy Efficiency Standards and its authorizing legislation, the Energy Efficiency Act, including detailed guidance on specific products, visit:

[British Columbia | Energy Efficiency Standards](#)

Computers and Monitors

The new minimum energy performance standards are harmonized with state standards in California and Washington. Regulated product types include desktop computers, laptop computers, notebooks, portable all-in-one computers, mobile gaming systems, thin clients, small-scale servers, workstations, high expandability computers, and computer monitors. The standard applies to all regulated products manufactured on or after July 1, 2021.

Regulated products must be certified by a designated tester or must have a valid certification report listed on the California Energy Commission Modernized Appliance Efficiency Database System.

Residential Windows

The update requires all residential windows and sliding glass doors manufactured after January 1, 2022 to have a U-value $\leq 1.61 \text{ W}/(\text{m}^2\text{K})$. The standard applies to all metal and non-metal windows and sliding glass doors installed in residential buildings with less than 4 stories or a floor space of 600m^2 or less. The updated standard is an incremental improvement over the current minimum standard of U-value $\leq 1.80 \text{ W}/(\text{m}^2\text{K})$.

Residential Gas Boilers

The new standard requires residential boilers manufactured after January 1, 2022 to have an Annual Fuel Utilization Efficiency (AFUE) $\geq 90\%$ efficient. The standard covers residential boilers and combo boilers. The new minimum energy performance standard aligns with the updated federal residential boiler standard which takes

effect July 1, 2023. Product certification, labelling and reporting requirements are harmonized with the existing federal standards as well as the federal standards coming into effect July 1, 2023.

Commercial Gas Boilers

The new standard requires small commercial gas boilers to have a thermal efficiency $\geq 90\%$ and large commercial gas boilers to have a combustion efficiency $\geq 90\%$. The standard applies to products manufactured after January 1, 2023. The minimum energy performance standard aligns with the federal commercial boiler standard for the same products, which takes effect January 1, 2025.

Regulated products must be certified by a designated tester or must have a valid report listed on the AHRI Directory of Certified Product Performance or the United States Department of Energy Compliance Certification Database that demonstrates compliance.

General Service LED and Small Diameter Directional Lamps

The update exempts screw-based light emitting diode (LED) lamps and small diameter directional LED lamps from efficacy, colour rendering index and rated life requirements in the current regulation, effective immediately.

Commercial Fenestration

The update removes incoming requirements for NFRC CMA Label Certificates and retains the previous provision for commercial glazing to be listed on a certified product directory or verified by a designated tester. The update also clarifies the exemption for commercial fenestration installed in buildings built to the Energy Step Code.

Refrigerators, Combination Refrigerators-Freezers and Freezers

The update makes minor revisions to the product definitions, efficiency standards and testing procedures for refrigerators, combination refrigerator-freezers and freezers. The update aligns the standard with the government of Canada which applies to products imported into Canada or shipped between provinces.