

ENVIRONMENTAL STANDARDS FOR CERTAIN PRODUCTS

HB23-1161

Cleaning up our air
Protecting public health
Saving homes and businesses money



BILL OVERVIEW

The bill:

- Updates existing appliance standards laws by updating energy and water standards and adding additional products
- Accelerates phase-out of mercury-containing lightbulbs
- Lowers smog-causing pollution levels from common furnaces and water heaters
- Adds enforcement for major online retailers, to protect Colorado small businesses

As with the existing appliance standards laws, this bill:

- Only applies to new products (no removal of existing products in use, no requirements on the sale of used products)
- Only applies at the point of wholesale or retail sale (not at installation)
- Only includes products screened for cost-effectiveness and product availability
- Allows a phase-in for each new standard, and allows retailers to sell out old inventory
- Matches standards in place in multiple other states to avoid a patchwork of individual state regulations



- Updates standards for hot food holding cabinets and residential ventilating fans (e.g., bathroom fans)
- Adds standards for air purifiers, EV chargers, gas fireplaces, cold-temperature and impact-resistant light bulbs, commercial ovens, grid-connected storage water heaters, and residential windows, doors, and skylights
- Removes standards for air compressors, general light bulbs, and uninterruptible power supplies (these are now federally preempted)
- Matches standards in place in 12 states and underway in four additional states, with language agreed to by manufacturers and trade associations

Annual Savings by 2035:



UTILITY BILLS	\$29.3 million
ELECTRICITY	275.7 GWh
NATURAL GAS	343 BBtu
CO2	168.8 thous. MT
NOx	159.7 tons
SO2	23.6 tons

• Note: Savings based on introduced bill, not including amendments



- Updates standards for private lavatory faucets, spray sprinkler bodies, and urinals
- Adds standards for irrigation controllers (excluding agriculture) and tub-spout diverters
- Rearranges and consolidates existing statute for clarity
- For private lavatory faucets and urinals, matches stronger standards in place in four states; for other water standards, matches standards in place in eight states and underway in four more

Annual Savings by 2035:



UTILITY BILLS	\$15.5 million
WATER	222 million gallons
ELECTRICITY	12.8 GWh
NATURAL GAS	348 BBtu
CO2	24.5 thous. MT
NOx	22.2 tons
SO2	1.1 tons

- Not including huge water savings from power plants or energy savings from water distribution & treatment
- Note: Savings based on introduced bill, not including amendments

MERCURY

- Phases out sales of mercury-containing light bulbs
- Accelerates the transition to LEDs, which use half as much energy, last twice as long, and offer better light quality
- Only affects common lightbulbs, excludes specialty bulbs
- Matches standards in place in two states and underway in 14 additional states, with language agreed to by manufacturers and trade associations

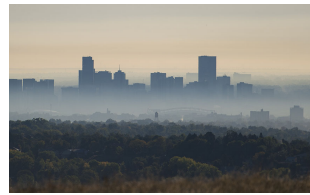
Annual Savings by 2030:

* UTILITY BILLS	\$63 million
MERCURY	14.5 lbs
ELECTRICITY	757 GWh
CO2	256 thous. MT

* Note: Savings based on introduced bill, not including amendments



AIR POLLUTION



VS



- Adds "ultra-low-NOx" emissions limits for certain water heaters and furnaces
- Matches water heater emissions limits in Utah and California, furnace limits in California and Denver, and limits in progress in NESCAUM
- Products are already available from major manufacturers and major retailers
- Allows an exception for ENERGY STAR systems
- Cost impact: \$30 for water heaters, \$400 for furnaces

Savings Data:

* UTILITY BILLS	Depends on efficiency
NOx	75% per water heater 65% per furnace

* Note: Savings based on introduced bill, not including amendments

Colorado's natural gas appliances emit **4x** as much NOx as all of our natural gas power plants combined. Low-NOx gas appliances will help immediately reduce this pollution *

* Source: RMI analysis of emissions data from EPA 2017 National Emissions Inventory



Consumer Federation of America



Conservation Colorado



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