77th OREGON LEGISLATIVE ASSEMBLY--2013 Regular Session

C-Engrossed Senate Bill 692

Ordered by the House May 17 Including Senate Amendments dated April 12 and House Amendments dated May 9 and May 17

Sponsored by COMMITTEE ON ENVIRONMENT AND NATURAL RESOURCES

SUMMARY

The following summary is not prepared by the sponsors of the measure and is not a part of the body thereof subject to consideration by the Legislative Assembly. It is an editor's brief statement of the essential features of the measure.

Establishes minimum energy efficiency standards for certain products. Prohibits sale or installation of products that do not meet standards.

1	A BILL FOR AN ACT
2	Relating to minimum energy efficiency standards; creating new provisions; and amending ORS
3	469.229, 469.233, 469.238 and 469.239.
4	Be It Enacted by the People of the State of Oregon:
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6	DEFINITIONS
7	
8	SECTION 1. ORS 469.229 is amended to read:
9	469.229. As used in ORS 469.229 to 469.261, unless the context clearly requires otherwise:
10	(1) "À la carte charger" means a battery charger that is individually packaged without
11	batteries, including a multiport charger or a charger with multivoltage capability.
12	[(1)] (2) "Automatic commercial ice cube machine" means a factory-made assembly, not neces-
13	sarily shipped in one package, consisting of a condensing unit and ice-making section operating as
14	an integrated unit with means for making and harvesting ice cubes, and any integrated components
15	for storing or dispensing ice.
16	[(2)] (3) "Ballast" means a device used with an electric discharge lamp to obtain necessary cir-
17	cuit conditions for starting and operating the lamp.
18	(4) "Battery" or "battery pack" means an assembly of one or more rechargeable cells
19	intended to provide electrical energy to a product, in one of the following forms:
20	(a) A detachable battery that is contained in an enclosure separate from the product and
21	that is intended to be removed or disconnected from the product for charging; or
22	(b) An integral battery that is contained within the product and is not removed from the
23	product for charging.
24	(5) "Battery analyzer" means a device:
25	(a) Used to analyze and report a battery's performance and overall condition;
26	(b) Capable of being programmed and performing service functions to restore capability
27	in deficient batteries; and
28	(c) Not intended or marketed to be used on a daily basis for the purpose of charging

1 batteries.

2 (6) "Battery backup" or "uninterruptible power supply charger (UPS)" means a small 3 battery charger system that is voltage and frequency dependent (VFD) and designed to pro-4 vide power to an end-use product in the event of a power outage, including a UPS as defined 5 in International Electrotechnical Commission (IEC) publication 62040-3 (March 2011 edition), 6 where the output of the VFD UPS is dependent on changes in AC input voltage and frequency 7 and is not intended to provide additional corrective functions, such as those relating to the 8 use of tapped transformers.

9 (7)(a) "Battery charger system" means a battery charger coupled with its batteries, in-10 cluding:

(A) Electronic devices with a battery that are normally charged from AC line voltage or
 DC input voltage through an internal or external power supply and a dedicated battery
 charger;

(B) The battery and battery charger components of devices that are designed to run on
 battery power during part or all of their operations;

(C) Dedicated battery systems primarily designed for electrical or emergency backup; and
 (D) Devices whose primary function is to charge batteries, along with the batteries the
 devices are designed to charge, including chargers for power tool batteries and chargers for
 automotive, AA, AAA, C, D, or nine-volt rechargeable batteries and chargers for batteries
 used in larger industrial motive equipment and à la carte chargers.

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(b) "Battery charger system" does not mean a battery charger:

(A) Used to charge a motor vehicle that is powered by an electric motor drawing current
from rechargeable storage batteries, fuel cells or other portable sources of electrical current,
including a nonelectrical source of power designed to charge batteries and components
thereof, except for battery chargers for forklifts, electric personal assistive mobility devices
or low-speed vehicles;

(B) That is classified as a Class II or Class III device for human use under the Federal
Food, Drug, and Cosmetic Act, as in effect on the effective date of this 2013 Act, and that
requires listing and approval as a medical device;

30 (C) Used to charge a battery or batteries in an illuminated exit sign, including those 31 products that are a combination illuminated exit sign and emergency egress lighting;

32 (D) With input that is three phases of line-to-line 300 volts root mean square or more 33 and is designed for a stationary power application;

34 (E) That is a battery analyzer; or

(F) That is a voltage independent or voltage and frequency independent uninterruptible
 power supply as defined in International Electrotechnical Commission (IEC) publication
 62040-3 (March 2011 edition).

(c) The charging circuitry of battery charger systems may or may not be located within
the housing of the end-use device. In many cases, the battery may be charged with a dedicated external charger and power supply combination that is separate from the device that
runs on power from the battery.

42 (8) "Battery maintenance mode" means the mode of operation when the battery charger
43 system is connected to the main electricity supply and the battery is fully charged and con44 nected to the charger.

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[(3)] (9) "Bottle-type water dispenser" means a water dispenser that uses a bottle or reservoir

1 as the source of potable water.

(10) "Charge return factor" means the number of ampere-hours returned to the battery
during the charge cycle divided by the number of ampere-hours delivered by the battery
during discharge.

5 (11) "Combination television" means a system in which a television or television monitor 6 and an additional device or devices, including a video cassette recorder, are combined into a 7 single unit in which the additional device or devices are included in the television casing.

8 [(4)] (12) "Commercial clothes washer" means a soft mount horizontal-axis or vertical-axis 9 clothes washer that:

(a) Has a clothes compartment no greater than 3.5 cubic feet in the case of a horizontal-axis
 product or no greater than 4 cubic feet in the case of a vertical-axis product; and

12 (b) Is designed for use by more than one household.

[(5)(a)] (13)(a) "Commercial hot food holding cabinet" means an appliance that is a heated,
 fully-enclosed compartment with one or more solid doors and is designed to maintain the temper ature of hot food that has been cooked in a separate appliance.

(b) "Commercial hot food holding cabinet" does not include heated glass merchandising cabinets,
 drawer warmers or cook-and-hold appliances.

[(6)] (14) "Commercial prerinse spray valve" means a handheld device designed and marketed for use with commercial dishwashing equipment and that sprays water on dishes, flatware and other food service items for the purpose of removing food residue prior to their cleaning.

[(7)] (15) "Commercial refrigerators or freezers" means refrigerators, freezers or refrigeratorfreezers, smaller than 85 cubic feet of internal volume and designed for use by commercial or institutional facilities for the purpose of storing or merchandising food products, beverages or ice at specified temperatures, other than products without doors, walk-in refrigerators or freezers, consumer products that are federally regulated pursuant to 42 U.S.C. 6291 et seq. or freezers specifically designed for ice cream. "Commercial refrigerators or freezers":

(a) Must incorporate most components involved in the vapor-compression cycle and the refrig erated compartment in a single cabinet; and

(b) May be configured with either solid or transparent doors as a reach-in cabinet, pass-through
 cabinet, roll-in cabinet or roll-through cabinet.

31 [(8)(a)] (16)(a) "Compact audio product," also known as a mini, mid, micro or shelf audio system, 32 means an integrated audio system encased in a single housing that includes an amplifier and radio 33 tuner and attached or separable speakers that can reproduce audio from one or more of the fol-34 lowing media:

35 (A) Magnetic tape;

36 (B) Compact disc;

37 (C) DVD; or

38 (D) Flash memory.

(b) "Compact audio product" does not include products that can be independently powered by
 internal batteries, have a powered external satellite antenna or can provide a video output signal.

41 [(9)] (17) "Compensation" means money or any other valuable thing, regardless of form, received 42 or to be received by a person for services rendered.

(18) "Component television" means a television composed of two or more separate components, including separate display device and tuner, marketed as a television under one
model or system designation and having one or more power cords.

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(19) "Computer monitor" means an analog or digital device that is designed primarily for 2 the display of computer-generated signals and that is not marketed for use as a television.

3 [(10)] (20) "Digital versatile disc" or "DVD" means a laser-encoded plastic medium capable of storing a large amount of digital audio, video and computer data. 4

[(11)(a)] (21)(a) "Digital versatile disc player" or "digital versatile disc recorder" means a com-5 mercially available electronic product encased in a single housing that includes an integral power 6 7 supply and for which the sole purpose is, respectively, the decoding and the production or recording of digitized video signal on a DVD. 8

9 (b) "Digital versatile disc recorder" does not include models that have an electronic programming guide function that provides an interactive, on-screen menu of television listings and down-10 loads program information from the vertical blanking interval of a regular television signal. 11

12(22) "Electronic programming guide" means an application that provides an interactive, 13 on-screen menu of television listings that downloads program information from the vertical blanking interval of a regular television signal. 14

15[(12)] (23) "High-intensity discharge lamp" means a lamp in which light is produced by the passage of an electric current through a vapor or gas, and in which the light-producing arc is stabilized 16 by bulb wall temperature and the arc tube has a bulb wall loading in excess of three watts per 17 18 square centimeter.

19 [(13)] (24) "Illuminated exit sign" means an internally illuminated sign that is designed to be permanently fixed in place to identify a building exit, that consists of an electrically powered inte-20gral light source that illuminates the legend "EXIT" and any directional indicators and that pro-2122vides contrast between the legend, any directional indicators and the background.

23(25) "Inductive charger system" means a small battery charger system that transfers power to the charger through magnetic or electric induction. 24

25(26)(a) "Large battery charger system" means a battery charger system with a rated input power of more than two kilowatts. 26

27(b) "Large battery charger system" does not mean a battery charger system for golf 28carts.

[(14)] (27) "Metal halide lamp" means a high-intensity discharge lamp in which the major portion 2930 of the light is produced by radiation of metal halides and their products of dissociation, possibly in 31 combination with metallic vapors.

[(15)] (28) "Metal halide lamp fixture" means a light fixture designed to be operated with a metal 32halide lamp and a ballast for a metal halide lamp. 33

34 (29) "Multiport charger" means a battery charger that is capable of simultaneously 35 charging two or more batteries and that may have multivoltage capability, allowing two or more batteries of different voltages to charge simultaneously. 36

37 (30) "No battery mode" means the mode of operation in which a battery charger is con-38 nected to the main electricity supply and the battery is not connected to the charger.

[(16)] (31) "Pass-through cabinet" means a commercial refrigerator or freezer with hinged or 39 sliding doors on both the front and rear of the unit. 40

[(17)] (32) "Portable electric spa" means a factory-built electric spa or hot tub supplied with 41 equipment for heating and circulating water. 42

(33) "Power conversion efficiency" means the instantaneous DC output power of the 43 battery charger system divided by the simultaneous utility AC input power. 44

[(18)] (34) "Probe-start metal halide lamp ballast" means a ballast used to operate metal halide 45

lamps that does not contain an igniter and that instead starts metal halide lamps by using a third 1 2 starting electrode probe in the arc tube. [(19)] (35) "Reach-in cabinet" means a commercial refrigerator or freezer with hinged or sliding 3 doors or lids, other than roll-in or roll-through cabinets or pass-through cabinets. 4 [(20)] (36) "Roll-in cabinet" means a commercial refrigerator or freezer with hinged or sliding 5 doors that allow wheeled racks to be rolled into the unit. 6 [(21)] (37) "Roll-through cabinet" means a commercial refrigerator or freezer with hinged or 7 sliding doors on two sides of the cabinet that allow wheeled racks to be rolled through the unit. 8 9 (38) "Selected input mode" means the input port selected that the television uses as a source to produce a visible or audible output and that is required for televisions with multi-10 ple possible inputs, including coaxial, composite, S-Video, HDMI and component connectors. 11 12 [(22)(a)] (39)(a) "Single-voltage external AC to DC power supply" means a device, other than a 13 product with batteries or battery packs that physically attach directly to the power supply unit, a product with a battery chemistry or type selector switch and indicator light or a product with a 14 15 battery chemistry or type selector switch and a state of charge meter, that: 16(A) Is designed to convert line voltage alternating current input into lower voltage direct current output; 1718 (B) Is able to convert to only one direct current output voltage at a time; (C) Is sold with, or intended to be used with, a separate end-use product that constitutes the 19 primary power load; 20(D) Is contained within a separate physical enclosure from the end-use product; 2122(E) Is connected to the end-use product via a removable or hard-wired male or female electrical connection, cable, cord or other wiring; and 23(F) Has a nameplate output power less than or equal to 250 watts. 24(b) "Single-voltage external AC to DC power supply" does not include power supplies that are 25classified as devices for human use under the Federal Food, Drug and Cosmetic Act, 21 U.S.C. 360c. 2627(40) "Small battery charger system" means: (a) A battery charger system with a rated input power of two kilowatts or less. 28(b) A golf cart battery charger system, regardless of input power or battery capacity. 2930 [(23)] (41) "State-regulated incandescent reflector lamp" means a lamp that is not colored or 31 designed for rough or vibrating service applications, that has an inner reflective coating on the 32outer bulb to direct the light, that has an E26 medium screw base, that has a rated voltage or voltage range that lies at least partially within 115 to 130 volts and that falls into one of the fol-33 34 lowing categories: 35 (a) A bulged reflector or elliptical reflector bulb shape that has a diameter that equals or ex-36 ceeds 2.25 inches; or 37 (b) A reflector, parabolic aluminized reflector or similar bulb shape that has a diameter of 2.25 38 to 2.75 inches. (42)(a) "Television" means an analog or digital device, including a combination television, 39 a television monitor, a component television and any unit marketed as a television, designed 40 for the display and reception of a terrestrial, satellite, cable or Internet protocol or other 41 broadcast or recorded transmission of analog or digital video or audio signals. 42 (b) "Television" does not mean a computer monitor. 43 (43) "Television monitor" means a television that does not have an internal tuner, re-44 ceiver or playback device. 45

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1 (44) "Television standby-passive mode" means the mode of operation in which the tele-2 vision is connected to a power source, produces neither sound nor picture but can be 3 switched into another mode with the remote control unit or via an internal signal.

4 [(24)] (45) "Torchiere" means a portable electric lighting fixture with a reflective bowl that di-5 rects light upward so as to produce indirect illumination.

6 [(25)] (46) "Traffic signal module" means a standard traffic signal indicator, consisting of a light 7 source, a lens and all other parts necessary for operation, that is:

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(b) Twelve inches, or approximately 300 millimeters, in diameter.

(a) Eight inches, or approximately 200 millimeters, in diameter; or

10 [(26)] (47) "Unit heater" means a self-contained, vented fan-type commercial space heater, other 11 than a consumer product covered by federal standards established pursuant to 42 U.S.C. 6291 et seq. 12 or that is a direct vent, forced flue heater with a sealed combustion burner, that uses natural gas 13 or propane and that is designed to be installed without ducts within a heated space.

(48) "USB charger system" means a small battery charger system that uses a universal serial bus (USB) connector as the only power source to charge the battery, and is packaged with an external power supply rated with a voltage output of five volts and a power output of 15 watts or less.

[(27)] (49) "Walk-in refrigerator" and "walk-in freezer" mean a space refrigerated to temper atures, respectively, at or above and below 32° F that can be walked into.

20 [(28)] (50) "Water dispenser" means a factory-made assembly that mechanically cools and heats 21 potable water and dispenses the cooled or heated water by integral or remote means.

SECTION 2. ORS 469.229, as amended by section 1 of this 2013 Act, is amended to read:

469.229. As used in ORS 469.229 to 469.261, unless the context clearly requires otherwise:

(1) "À la carte charger" means a battery charger that is individually packaged without batteries,
 including a multiport charger or a charger with multivoltage capability.

26 (2) "Automatic commercial ice cube machine" means a factory-made assembly, not necessarily 27 shipped in one package, consisting of a condensing unit and ice-making section operating as an in-28 tegrated unit with means for making and harvesting ice cubes, and any integrated components for 29 storing or dispensing ice.

(3) "Ballast" means a device used with an electric discharge lamp to obtain necessary circuit
 conditions for starting and operating the lamp.

(4) "Battery" or "battery pack" means an assembly of one or more rechargeable cells intended
 to provide electrical energy to a product, in one of the following forms:

(a) A detachable battery that is contained in an enclosure separate from the product and that
 is intended to be removed or disconnected from the product for charging; or

(b) An integral battery that is contained within the product and is not removed from the productfor charging.

38 (5) "Battery analyzer" means a device:

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(a) Used to analyze and report a battery's performance and overall condition;

40 (b) Capable of being programmed and performing service functions to restore capability in defi-41 cient batteries; and

42 (c) Not intended or marketed to be used on a daily basis for the purpose of charging batteries.

(6) "Battery backup" or "uninterruptible power supply charger (UPS)" means a small battery
charger system that is voltage and frequency dependent (VFD) and designed to provide power to an
end-use product in the event of a power outage, including a UPS as defined in International

1 Electrotechnical Commission (IEC) publication 62040-3 (March 2011 edition), where the output of the

2 VFD UPS is dependent on changes in AC input voltage and frequency and is not intended to provide

3 additional corrective functions, such as those relating to the use of tapped transformers.

4 (7)(a) "Battery charger system" means a battery charger coupled with its batteries, including:

5 (A) Electronic devices with a battery that are normally charged from AC line voltage or DC 6 input voltage through an internal or external power supply and a dedicated battery charger;

(B) The battery and battery charger components of devices that are designed to run on battery
power during part or all of their operations;

(C) Dedicated battery systems primarily designed for electrical or emergency backup; and

10 (D) Devices whose primary function is to charge batteries, along with the batteries the devices 11 are designed to charge, including chargers for power tool batteries and chargers for automotive, 12 AA, AAA, C, D, or nine-volt rechargeable batteries and chargers for batteries used in larger indus-

13 trial motive equipment and à la carte chargers.

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(b) "Battery charger system" does not mean a battery charger:

(A) Used to charge a motor vehicle that is powered by an electric motor drawing current from rechargeable storage batteries, fuel cells or other portable sources of electrical current, including a nonelectrical source of power designed to charge batteries and components thereof, except for battery chargers for forklifts, electric personal assistive mobility devices or low-speed vehicles;

(B) That is classified as a Class II or Class III device for human use under the Federal Food,
Drug, and Cosmetic Act, as in effect on the effective date of this 2013 Act, and that requires listing
and approval as a medical device;

(C) Used to charge a battery or batteries in an illuminated exit sign, including those products
 that are a combination illuminated exit sign and emergency egress lighting;

(D) With input that is three phases of line-to-line 300 volts root mean square or more and is designed for a stationary power application;

26 (E) That is a battery analyzer; or

(F) That is a voltage independent or voltage and frequency independent uninterruptible power
supply as defined in International Electrotechnical Commission (IEC) publication 62040-3 (March
2011 edition).

(c) The charging circuitry of battery charger systems may or may not be located within the
 housing of the end-use device. In many cases, the battery may be charged with a dedicated external
 charger and power supply combination that is separate from the device that runs on power from the
 battery.

(8) "Battery maintenance mode" means the mode of operation when the battery charger system
is connected to the main electricity supply and the battery is fully charged and connected to the
charger.

(9) "Bottle-type water dispenser" means a water dispenser that uses a bottle or reservoir as the
 source of potable water.

(10) "Charge return factor" means the number of ampere-hours returned to the battery during
the charge cycle divided by the number of ampere-hours delivered by the battery during discharge.

(11) "Combination television" means a system in which a television or television monitor and
an additional device or devices, including a video cassette recorder, are combined into a single unit
in which the additional device or devices are included in the television casing.

44 (12) "Commercial clothes washer" means a soft mount horizontal-axis or vertical-axis clothes 45 washer that:

[7]

1 (a) Has a clothes compartment no greater than 3.5 cubic feet in the case of a horizontal-axis 2 product or no greater than 4 cubic feet in the case of a vertical-axis product; and

3 (b) Is designed for use by more than one household.

4 (13)(a) "Commercial hot food holding cabinet" means an appliance that is a heated, fully-5 enclosed compartment with one or more solid doors and is designed to maintain the temperature of 6 hot food that has been cooked in a separate appliance.

7 (b) "Commercial hot food holding cabinet" does not include heated glass merchandising cabinets,
8 drawer warmers or cook-and-hold appliances.

9 (14) "Commercial prerinse spray valve" means a handheld device designed and marketed for use 10 with commercial dishwashing equipment and that sprays water on dishes, flatware and other food 11 service items for the purpose of removing food residue prior to their cleaning.

(15) "Commercial refrigerators or freezers" means refrigerators, freezers or refrigerator-freezers, smaller than 85 cubic feet of internal volume and designed for use by commercial or institutional facilities for the purpose of storing or merchandising food products, beverages or ice at specified temperatures, other than products without doors, walk-in refrigerators or freezers, consumer products that are federally regulated pursuant to 42 U.S.C. 6291 et seq. or freezers specifically designed for ice cream. "Commercial refrigerators or freezers":

(a) Must incorporate most components involved in the vapor-compression cycle and the refrig erated compartment in a single cabinet; and

20 (b) May be configured with either solid or transparent doors as a reach-in cabinet, pass-through 21 cabinet, roll-in cabinet or roll-through cabinet.

(16)(a) "Compact audio product," also known as a mini, mid, micro or shelf audio system, means an integrated audio system encased in a single housing that includes an amplifier and radio tuner and attached or separable speakers that can reproduce audio from one or more of the following media:

26 (A) Magnetic tape;

27 (B) Compact disc;

28 (C) DVD; or

29 (D) Flash memory.

(b) "Compact audio product" does not include products that can be independently powered by
 internal batteries, have a powered external satellite antenna or can provide a video output signal.

(17) "Compensation" means money or any other valuable thing, regardless of form, received or
 to be received by a person for services rendered.

(18) "Component television" means a television composed of two or more separate components,
 including separate display device and tuner, marketed as a television under one model or system
 designation and having one or more power cords.

(19) "Computer monitor" means an analog or digital device that is designed primarily for the
 display of computer-generated signals and that is not marketed for use as a television.

(20) "Digital versatile disc" or "DVD" means a laser-encoded plastic medium capable of storing
 a large amount of digital audio, video and computer data.

41 (21)(a) "Digital versatile disc player" or "digital versatile disc recorder" means a commercially 42 available electronic product encased in a single housing that includes an integral power supply and 43 for which the sole purpose is, respectively, the decoding and the production or recording of digitized 44 video signal on a DVD.

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(b) "Digital versatile disc recorder" does not include models that have an electronic program-

1 ming guide function that provides an interactive, on-screen menu of television listings and down-2 loads program information from the vertical blanking interval of a regular television signal.

3 (22) "Electronic programming guide" means an application that provides an interactive, on-4 screen menu of television listings that downloads program information from the vertical blanking 5 interval of a regular television signal.

6 (23) "High-intensity discharge lamp" means a lamp in which light is produced by the passage 7 of an electric current through a vapor or gas, and in which the light-producing arc is stabilized by 8 bulb wall temperature and the arc tube has a bulb wall loading in excess of three watts per square 9 centimeter.

10 (24)(a) "High light output double-ended quartz halogen lamp" means a lamp that:

11 (A) Is designed for general outdoor lighting purposes;

12 (B) Contains a tungsten filament;

13 (C) Has a rated initial lumen value of greater than 6,000 and less than 40,000 lumens;

14 (D) Has at each end a recessed single contact, R7s base;

15 (E) Has a maximum overall length between four and 11 inches;

16 (F) Has a nominal diameter less than three-fourths inch (T6); and

(G) Is designed to be operated at a voltage between 110 volts and 200 volts or is designed
 to be operated at a voltage between 235 volts and 300 volts.

19 (b) "High light output double-ended quartz halogen lamp" does not mean a lamp that is:

20 (A) A tubular quartz infrared heat lamp; or

(B) Marked and marketed as a stage and studio lamp with a rated life of 500 hours or
 less.

[(24)] (25) "Illuminated exit sign" means an internally illuminated sign that is designed to be permanently fixed in place to identify a building exit, that consists of an electrically powered integral light source that illuminates the legend "EXIT" and any directional indicators and that provides contrast between the legend, any directional indicators and the background.

[(25)] (26) "Inductive charger system" means a small battery charger system that transfers power to the charger through magnetic or electric induction.

[(26)(a)] (27)(a) "Large battery charger system" means a battery charger system with a rated
 input power of more than two kilowatts.

31 (b) "Large battery charger system" does not mean a battery charger system for golf carts.

32 [(27)] (28) "Metal halide lamp" means a high-intensity discharge lamp in which the major portion 33 of the light is produced by radiation of metal halides and their products of dissociation, possibly in 34 combination with metallic vapors.

[(28)] (29) "Metal halide lamp fixture" means a light fixture designed to be operated with a metal
 halide lamp and a ballast for a metal halide lamp.

37 [(29)] (30) "Multiport charger" means a battery charger that is capable of simultaneously 38 charging two or more batteries and that may have multivoltage capability, allowing two or more 39 batteries of different voltages to charge simultaneously.

40 [(30)] (31) "No battery mode" means the mode of operation in which a battery charger is con-41 nected to the main electricity supply and the battery is not connected to the charger.

42 [(31)] (32) "Pass-through cabinet" means a commercial refrigerator or freezer with hinged or 43 sliding doors on both the front and rear of the unit.

44 [(32)] (33) "Portable electric spa" means a factory-built electric spa or hot tub supplied with 45 equipment for heating and circulating water.

[(33)] (34) "Power conversion efficiency" means the instantaneous DC output power of the bat-1 tery charger system divided by the simultaneous utility AC input power. 2

[(34)] (35) "Probe-start metal halide lamp ballast" means a ballast used to operate metal halide 3 lamps that does not contain an igniter and that instead starts metal halide lamps by using a third 4 starting electrode probe in the arc tube. 5

[(35)] (36) "Reach-in cabinet" means a commercial refrigerator or freezer with hinged or sliding 6 doors or lids, other than roll-in or roll-through cabinets or pass-through cabinets. 7

[(36)] (37) "Roll-in cabinet" means a commercial refrigerator or freezer with hinged or sliding 8 9 doors that allow wheeled racks to be rolled into the unit.

[(37)] (38) "Roll-through cabinet" means a commercial refrigerator or freezer with hinged or 10 sliding doors on two sides of the cabinet that allow wheeled racks to be rolled through the unit. 11

12 [(38)] (39) "Selected input mode" means the input port selected that the television uses as a 13 source to produce a visible or audible output and that is required for televisions with multiple possible inputs, including coaxial, composite, S-Video, HDMI and component connectors. 14

15[(39)(a)] (40)(a) "Single-voltage external AC to DC power supply" means a device, other than a product with batteries or battery packs that physically attach directly to the power supply unit, a 16 product with a battery chemistry or type selector switch and indicator light or a product with a 17 battery chemistry or type selector switch and a state of charge meter, that: 18

19 (A) Is designed to convert line voltage alternating current input into lower voltage direct current output; 20

(B) Is able to convert to only one direct current output voltage at a time; 21

22(C) Is sold with, or intended to be used with, a separate end-use product that constitutes the primary power load; 23

(D) Is contained within a separate physical enclosure from the end-use product; 24

(E) Is connected to the end-use product via a removable or hard-wired male or female electrical 25connection, cable, cord or other wiring; and 26

27(F) Has a nameplate output power less than or equal to 250 watts.

(b) "Single-voltage external AC to DC power supply" does not include power supplies that are 28classified as devices for human use under the Federal Food, Drug and Cosmetic Act, 21 U.S.C. 360c. 2930 [(40)] (41) "Small battery charger system" means:

31 (a) A battery charger system with a rated input power of two kilowatts or less.

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(b) A golf cart battery charger system, regardless of input power or battery capacity.

[(41)] (42) "State-regulated incandescent reflector lamp" means a lamp that is not colored or 33 34 designed for rough or vibrating service applications, that has an inner reflective coating on the 35 outer bulb to direct the light, that has an E26 medium screw base, that has a rated voltage or voltage range that lies at least partially within 115 to 130 volts and that falls into one of the fol-36 37 lowing categories:

38 (a) A bulged reflector or elliptical reflector bulb shape that has a diameter that equals or exceeds 2.25 inches; or 39

40 (b) A reflector, parabolic aluminized reflector or similar bulb shape that has a diameter of 2.25 to 2.75 inches. 41

42[(42)(a)] (43)(a) "Television" means an analog or digital device, including a combination television, a television monitor, a component television and any unit marketed as a television, designed 43 for the display and reception of a terrestrial, satellite, cable or Internet protocol or other broadcast 44 or recorded transmission of analog or digital video or audio signals. 45

(b) "Television" does not mean a computer monitor. 1 2 [(43)] (44) "Television monitor" means a television that does not have an internal tuner, receiver or playback device. 3 [(44)] (45) "Television standby-passive mode" means the mode of operation in which the tele-4 vision is connected to a power source, produces neither sound nor picture but can be switched into 5 another mode with the remote control unit or via an internal signal. 6 [(45)] (46) "Torchiere" means a portable electric lighting fixture with a reflective bowl that di-7 rects light upward so as to produce indirect illumination. 8 9 [(46)] (47) "Traffic signal module" means a standard traffic signal indicator, consisting of a light source, a lens and all other parts necessary for operation, that is: 10 11 (a) Eight inches, or approximately 200 millimeters, in diameter; or 12(b) Twelve inches, or approximately 300 millimeters, in diameter. 13 [(47)] (48) "Unit heater" means a self-contained, vented fan-type commercial space heater, other than a consumer product covered by federal standards established pursuant to 42 U.S.C. 6291 et seq. 14 15 or that is a direct vent, forced flue heater with a sealed combustion burner, that uses natural gas 16 or propane and that is designed to be installed without ducts within a heated space. [(48)] (49) "USB charger system" means a small battery charger system that uses a universal 1718 serial bus (USB) connector as the only power source to charge the battery, and is packaged with an external power supply rated with a voltage output of five volts and a power output of 15 watts 19 20or less. [(49)] (50) "Walk-in refrigerator" and "walk-in freezer" mean a space refrigerated to temper-2122atures, respectively, at or above and below 32° F that can be walked into. 23[(50)] (51) "Water dispenser" means a factory-made assembly that mechanically cools and heats potable water and dispenses the cooled or heated water by integral or remote means. 2425MINIMUM ENERGY EFFICIENCY STANDARDS 2627SECTION 3. ORS 469.233 is amended to read: 28469.233. The following minimum energy efficiency standards for new products are established: 2930 (1)(a) Automatic commercial ice cube machines must have daily energy use and daily water use 31 no greater than the applicable values in the following table: 3233 34 Equipment type Type of Harvest rate Maximum Maximum 35 cooling (lbs. ice/24 hrs.) energy use condenser (kWh/100 lbs.) 36 water use 37 (gallons/100 lbs. ice) 38 <500 7.80 -.0055H 200 -.022H Ice-making head water 39 ≥ 500<1436 5.58 -.0011H 40 200 -.022H \geq 1436 4.0 200 -.022H 41 Ice-making head <450 10.26 -.0086H Not applicable 42air \geq 450 6.89 -.0011H Not applicable 43 Remote condensing 44

45 but not remote

1	compressor	air	<1000	8.850038	Not applicable
2			≥ 1000	5.10	Not applicable
3	Remote condensing				
4	and remote				
5	compressor	air	<934	8.850038H	Not applicable
6			≥ 934	5.30	Not applicable
7	Self-contained				
8	models	water	<200	11.400190H	1910315H
9			≥ 200	7.60	1910315H
10	Self-contained				
11	models	air	<175	18.00469H	Not applicable
12			≥ 175	9.80	Not applicable
13	Where $H = harry$	vest rate	in pounds per 24]	nours, which must	be reported within 5 percent of

the tested value. Maximum water use applies only to water used for the condenser.

14

- 15
- 16

(b) For purposes of this subsection, automatic commercial ice cube machines shall be tested in 17accordance with the ARI 810-2003 test method as published by the Air-Conditioning and Refriger-18 19 ation Institute. Ice-making heads include all automatic commercial ice cube machines that are not 20split system ice makers or self-contained models as defined in ARI 810-2003.

21(2) Commercial clothes washers must have a minimum modified energy factor of 1.26 and a 22maximum water consumption factor of 9.5. For purposes of this subsection, capacity, modified energy 23factor and water consumption factor are defined and shall be measured in accordance with the federal test method for commercial clothes washers under 10 C.F.R. 430.23. 24

25(3) Commercial prerinse spray valves must have a flow rate equal to or less than 1.6 gallons per minute when measured in accordance with the ASTM International's "Standard Test Method for 2627Prerinse Spray Valves," ASTM F2324-03.

28 (4)(a) Commercial refrigerators or freezers must meet the applicable requirements listed in the following table: 29

30 31

91			
32	Equipment Type	Doors	Maximum Daily
33			Energy Consumption (kWh)
34			
35	Reach-in cabinets, pass-through		
36	cabinets and roll-in or roll-through	Solid	0.10V + 2.04
37	cabinets that are refrigerators	Transparent	0.12V + 3.34
38			
39	Reach-in cabinets, pass-through		
40	cabinets and roll-in or roll-through		
41	cabinets that are "pulldown"		
42	refrigerators	Transparent	0.126V + 3.51
43			
44	Reach-in cabinets, pass-through		
45	cabinets and roll-in or roll-through	Solid	0.40V + 1.38

1	cabinets that are freezers	Transparent	0.75V + 4.10
2	Reach-in cabinets that are		
3 4	refrigerator-freezers with an		
4 5	AV of 5.19 or higher	Solid	0.27AV - 0.71
6	AV 01 5.15 01 higher	Solid	0.21AV - 0.11
7	kWh = kilowatt hours		
8			
9	$V = total volume (ft^3)$		
10			
11	AV = adjusted volume = 1.63 x free	eezer volume (ft^3) + refrigera	tor volume (ft^3)
12			
13			
14	(b) For purposes of this subsect	tion:	
15	(A) "Pulldown" designates prod	ucts designed to take a fully	stocked refrigerator with beverages
16	at 90 degrees Fahrenheit and cool t	hose beverages to a stable ter	nperature of 38 degrees Fahrenheit
17	within 12 hours or less.		
18	(B) Daily energy consumption	shall be measured in accord	lance with the American National
19	Standards Institute/American Socie	ty of Heating, Refrigerating a	nd Air-Conditioning Engineers test
20	method 117-2002, except that:		
21	(i) The back-loading doors of p	ass-through and roll-through	refrigerators and freezers must re-
22	main closed throughout the test; an	nd	
23	(ii) The controls of all commer	cial refrigerators or freezers	shall be adjusted to obtain the fol-
24	lowing product temperatures, in ac	cordance with the California	Code of Regulations, Title 20, Divi-
25	sion 2, Chapter 4, Article 4, section	1604, table A-2, effective Nov	vember 27, 2002:
26			
27			
28	Product or compartment type	Integrated average prod	uct temperature
29		in degrees Fahrenheit	
30			
31	Refrigerator	38 ± 2	
32	Freezer	0 ± 2	
33			
34			
35	-		of five watts or less per illuminated
36 97	face. For purposes of this subsection		
37	conditions for testing established k Star exit sign program version 3.0.		
38 20	star exit sign program version 5.0. safety codes.	mummateu exit signs must a	iso meet an applicable building and
39 40	·	designed to be energied with	lamps rated greater than or equal
	_		
41 42	to 150 watts but less than or equa ballast.	i to ooo watte may not comta	ini a probe-start metar nanue famp
$\frac{42}{43}$		C to DC nower supplies man	ufactured on or after July 1, 2008,
45 44	must meet the requirements in the		anactured on or after sury 1, 2006,
44 45	mast meet the requirements in the	iono ming vabio.	
10			

<1 Wat ≥ 1 Wa	ate output	Minimum Efficiency in Active Mode
\geq 1 Wa and \leq	++	
\geq 1 Wa and \leq	t t	
and \leq		0.5 * Nameplate Output
> 51 W	51 Watts	0.09 * Ln (Nameplate Output) + 0.5
	atts	0.85
		Maximum Energy Consumption in No-Load Mode
• •		
Any Ou	itput	0.5 Watts
Whore	I.n. (Nomonlata Qutnut)	- Natural Logarithm of the nameplate output expressed in Watts
where i	Lii (Ivainepiate Output)	- Natural Logarithin of the nameplate output expressed in Watts
(h)	For the purposes of t	his subsection, efficiency of single-voltage external AC to DC power
		accordance with the United States Environmental Protection Agency's
		the Energy Efficiency of Single-Voltage External AC to DC and AC
	-	August 11, 2004. The efficiency in the active and no-load modes of
		only at 115 volts at 60 Hz.
-		undescent reflector lamps manufactured on or after January 1, 2008,
	-	encies in the following table:
Wattage	e	Minimum average lamp efficiency
		(lumens per watt)
40 - 50		10.5
51 - 66		11.0
67 - 85		12.5
86 - 115	5	14.0
116 - 15	55	14.5
)5	15.0

1	Module Type	Maximum Wattage	Nominal Wattage
2		(at 74°C)	(at 25°C)
3			
4	12" red ball (or 300 mm circular)	17	11
5	8" red ball (or 200 mm circular)	13	8
6	12" red arrow (or 300 mm arrow)	12	9
7			
8	12" green ball (or 300 mm circular)	15	15
9	8" green ball (or 200 mm circular)	12	12
10	12" green arrow (or 300 mm arrow)	11	11
11			

12

13 (b) For purposes of this subsection, maximum wattage and nominal wattage shall be measured in accordance with and under the testing conditions specified by the Institute for Transportation 14 15 Engineers "Interim LED Purchase Specification, Vehicle Traffic Control Signal Heads, Part 2: Light 16 Emitting Diode Vehicle Traffic Signal Modules."

17 18

29

(11) Unit heaters must be equipped with intermittent ignition devices and must have either power venting or an automatic flue damper.

19 (12) Bottle-type water dispensers designed for dispensing both hot and cold water may not have 20standby energy consumption greater than 1.2 kilowatt-hours per day, as measured in accordance with the test criteria contained in Version 1 of the United States Environmental Protection 2122Agency's "Energy Star Program Requirements for Bottled Water Coolers," except that units with 23an integral, automatic timer may not be tested using Section D, "Timer Usage," of the test criteria. (13) Commercial hot food holding cabinets shall have a maximum idle energy rate of 40 watts 24 25per cubic foot of interior volume, as determined by the "Idle Energy Rate-dry Test" in ASTM F2140-01, "Standard Test Method for Performance of Hot Food Holding Cabinets" published by 2627ASTM International. Interior volume shall be measured in accordance with the method shown in the United States Environmental Protection Agency's "Energy Star Program Requirements for Com-28mercial Hot Food Holding Cabinets," as in effect on August 15, 2003.

30 (14) Compact audio products may not use more than two watts in standby passive mode for those 31 without a permanently illuminated clock display and four watts in standby passive mode for those with a permanently illuminated clock display, as measured in accordance with International 32Electrotechnical Commission (IEC) test method 62087:2002(E), "Methods of Measurement for the 33 34 Power Consumption of Audio, Video, and Related Equipment."

(15) Digital versatile disc players and digital versatile disc recorders may not use more than 35 three watts in standby passive mode, as measured in accordance with International Electrotechnical 36 37 Commission (IEC) test method 62087:2002(E), "Methods of Measurement for the Power Consumption 38 of Audio, Video, and Related Equipment."

(16) Portable electric spas may not have a standby power greater than $5(V^{2/3})$ Watts where 39 V=the total volume in gallons, as measured in accordance with the test method for portable electric 40 spas contained in the California Code of Regulations, Title 20, Division 2, Chapter 4, section 1604. 41

(17)(a) Walk-in refrigerators and walk-in freezers with the applicable motor types shown in the 42table below shall include the required components shown. 43

44 45

1	Motor Type	Required Components
2	All	Interior lights: light sources with an efficacy of 45
3	All	
4 5		lumens per watt or more, including ballast losses (if any)
5 6		(ii any)
7	All	Automatic door closers that firmly close all
8		reach-in doors
9		
10	All	Automatic door closers that firmly close all walk-in
11		doors no wider than 3.9 feet and no higher than
12		6.9 feet that have been closed to within one
13		inch of full closure
14		
15	All	Wall, ceiling and door insulation at least R-28 for
16		refrigerators and at least R-34 for freezers
17		
18	All	Floor insulation at least R-28 for freezers (no
19		requirement for refrigerators)
20		
21	Condenser fan motors of	(i) Electronically commutated motors,
22	under one horsepower	(ii) Permanent split capacitor-type motors, or
23	-	(iii) Polyphase motors of ½ horsepower or more
24		
25	Single-phase evaporator	Electronically commutated motors
26	fan motors of under one	
27	horsepower and less	
28	than 460 volts	
29		
30		
31	(b) In addition to the require	ments in paragraph (a) of this subsection, walk-in refrigerators and
32	walk-in freezers with transparent	t reach-in doors shall meet the following requirements:
33	(A) Transparent reach-in doo	ors shall be of triple pane glass with either heat-reflective treated
34	glass or gas fill;	
35	(B) If the appliance has an	anti-sweat heater without anti-sweat controls, the appliance shall
36	have a total door rail, glass and	frame heater power draw of no more than 40 watts if it is a freezer
37	or 17 watts if it is a refrigerator	per foot of door frame width; and
38	(C) If the appliance has an	anti-sweat heater with anti-sweat heat controls, and the total door
39	rail, glass, and frame heater pow	ver draw is 40 watts or greater per foot of door frame width if it is
40	a freezer or 17 watts or greater	per foot of door frame width if it is a refrigerator, the anti-sweat
41		nergy use of the anti-sweat heater in an amount corresponding to
42		outside the door or to the condensation on the inner glass pane.
43	-	omatically enter television standby-passive mode after a maxi-
44	mum of 15 minutes without v	video or audio input on the selected input mode. A television
45	must enter television standby	-passive mode when turned off with the remote control unit

or via an internal signal. The peak luminance of a television in home mode, or in the default
 mode as shipped, may not be less than 65 percent of the peak luminance of the retail mode

or the brightest selectable preset mode of the television. A television must meet the stan dards in the following table:

		Maximum On	
	Television	Mode Power	
	Standby-	Usage (P in	Minimum
Viewable	passive Mode	Watts, A is	Power
Screen	Power Usage	Viewable	Factor for
Area	(Watts)	Screen area)	$(\mathbf{P} \geq 100\mathbf{W})$
<1400 sq. in	1 W	$\mathbf{P} \leq 0.12 \mathbf{x} \mathbf{A} + 25$	0.9
\geq 1400 sq. in	3 W	NA	NA
	Standards fo	or Large Battery Charg	ver Systems
erformance	Standards I	Standard	jer bystems
Parameter		Smithi u	
al anicol			
Charge Return			
actor	100 percent	$\mathbf{Crf} \leq 1.10$	
	Depth of		
	Discharge		
	<u> </u>	C	
	80 percent Denth of	$\mathbf{Crf} \leq 1.10$	
	Depth of	$\mathbf{Crf} \leq 1.10$	
		Crf ≤ 1.10	
	Depth of	Crf ≤ 1.10 Crf ≤ 1.15	
	Depth of Discharge		
	Depth of Discharge 40 percent		
	Depth of Discharge 40 percent Depth of Discharge		
	Depth of Discharge 40 percent Depth of Discharge	Crf ≤ 1.15	
	Depth of Discharge 40 percent Depth of Discharge		
Power Conversion Efficiency	Depth of Discharge 40 percent Depth of Discharge	Crf ≤ 1.15 ≥ 89 percent	
	Depth of Discharge 40 percent Depth of Discharge	Crf ≤ 1.15	
Efficiency	Depth of Discharge 40 percent Depth of Discharge	Crf ≤ 1.15 ≥ 89 percent	

Mode Power	\leq 10 +0.0012E _b W
$(\mathbf{E}_{\mathbf{b}} = \mathbf{battery})$, i i i i i i i i i i i i i i i i i i i
capacity of	
tested battery)	
No Battery	
Mode Power	\leq 10 W
(b)(A) As described in s	subparagraph (B) of this paragraph, inductive charger systems an
	tems must meet the minimum energy efficiency standards in th
following table:	
Standards	for Inductive and Small Battery Charger Systems
Performance	Standard
Parameter	
Maximum 24-hour	For E ₁ of 2.5 Wh or less: 16 x N
charge and	D
maintenance	For $E_{b} > 2.5$ Wh and
energy (Wh)	\leq 100 Wh: 12 x N+1.6E
$(\mathbf{E}_{\mathbf{b}} = \mathbf{capacity}$	D
of all batteries in	For $E_{\rm b} > 100$ Wh and
ports and N =	\leq 1000 Wh: 22 x N+1.5E
number of charger	D
ports)	For $E_b > 1000$ Wh:
	$36.4 \times N + 1.486E$
	D
Battery Maintenance	The sum of battery maintenance mode power and no
Mode Power and No	battery mode power must be less than or equal to:
Battery Mode	$1 \times N+0.0021 \times E_{h}$
Power (W)	b
Power Factor	
$(\mathbf{E}_{\mathbf{b}} = \mathbf{capacity}$	
of all batteries in	
ports and N =	
number of charger	
ports)	
(B) The requirements	in subparagraph (A) of this paragraph must be met by:
(i) Small battery char	ger systems for sale at retail that are not USB charger system

with a battery capacity of 20 watt-hours or more and that are manufactured on or after
January 1, 2014.

(ii) Small battery charger systems for sale at retail that are USB charger systems with 1 2 a battery capacity of 20 watt-hours or more and that are manufactured on or after January 1, 2014. 3 (iii) Small battery charger systems that are not sold at retail and that are manufactured 4 on or after January 1, 2017. 5 (iv) Inductive charger systems manufactured on or after January 1, 2014, unless the in-6 ductive charger system uses less than one watt in battery maintenance mode, less than one 7 watt in no battery mode and an average of one watt or less over the duration of the charge 8 9 and battery maintenance mode test. (v) Battery backups and uninterruptible power supplies, manufactured on or after Janu-10 ary 1, 2014, for small battery charger systems for sale at retail, which may not consume 11 12 more than 0.8 (0.0021xE) watts in battery maintenance mode, where (E_{h}) is the battery ca-13 pacity in watt-hours. (vi) Small battery charger systems not sold at retail, manufactured after January 1, 2017, 14 15 which may not consume more than 0.8 (0.0021xE₁) watts in battery maintenance mode, where (E₁) is the battery capacity in watt-hours. 16 (C) The requirements in subparagraph (A) of this paragraph do not need to be met by 1718 an à la carte charger that is: 19 (i) Provided separately from and subsequent to the sale of a small battery charger system described in this paragraph; 20(ii) Necessary as a replacement for, or as a replacement component of, a small battery 2122charger system; and 23(iii) Provided by a manufacturer directly to a consumer or to a service or repair facility. SECTION 4. ORS 469.233, as amended by section 3 of this 2013 Act, is amended to read: 24469.233. The following minimum energy efficiency standards for new products are established: 25(1)(a) Automatic commercial ice cube machines must have daily energy use and daily water use 2627no greater than the applicable values in the following table: 282930 Equipment type Type of Harvest rate Maximum Maximum 31 cooling (lbs. ice/24 hrs.) energy use condenser (kWh/100 lbs.) 32water use (gallons/100 lbs. ice) 33 34 7.80 -.0055H 200 -.022H 35 Ice-making head water <500 ≥ 500<1436 5.58 -.0011H 200 -.022H 36 37 \geq 1436 4.0200 -.022H 38 Ice-making head air <450 10.26 -.0086H Not applicable ≥ 450 6.89 -.0011H Not applicable 39 40 Remote condensing but not remote 41 42compressor <1000 8.85 -.0038 Not applicable air ≥ 1000 5.10Not applicable 43 Remote condensing 44 and remote 45

[19]

1	compressor	air	<934	8.850038H	Not applicable
2			≥ 934	5.30	Not applicable
3	Self-contained				
4	models	water	<200	11.400190H	1910315H
5			≥ 200	7.60	1910315H
6	Self-contained				
7	models	air	<175	18.00469H	Not applicable
8			≥ 175	9.80	Not applicable
9	Where $H = har$	vest rate	in pounds per 24 l	nours, which must	be reported within 5 percent of
10		•		1 4 4 10	(1 1

10 the tested value. Maximum water use applies only to water used for the condenser.

11 12

26

(b) For purposes of this subsection, automatic commercial ice cube machines shall be tested in 13accordance with the ARI 810-2003 test method as published by the Air-Conditioning and Refriger-14 15ation Institute. Ice-making heads include all automatic commercial ice cube machines that are not 16split system ice makers or self-contained models as defined in ARI 810-2003.

(2) Commercial clothes washers must have a minimum modified energy factor of 1.26 and a 1718 maximum water consumption factor of 9.5. For purposes of this subsection, capacity, modified energy 19 factor and water consumption factor are defined and shall be measured in accordance with the fed-20eral test method for commercial clothes washers under 10 C.F.R. 430.23.

21(3) Commercial prerinse spray valves must have a flow rate equal to or less than 1.6 gallons per 22minute when measured in accordance with the ASTM International's "Standard Test Method for 23Prerinse Spray Valves," ASTM F2324-03.

(4)(a) Commercial refrigerators or freezers must meet the applicable requirements listed in the 2425following table:

27			
28	Equipment Type	Doors	Maximum Daily
29			Energy Consumption (kWh)
30			
31	Reach-in cabinets, pass-through		
32	cabinets and roll-in or roll-through	Solid	0.10V + 2.04
33	cabinets that are refrigerators	Transparent	0.12V + 3.34
34			
35	Reach-in cabinets, pass-through		
36	cabinets and roll-in or roll-through		
37	cabinets that are "pulldown"		
38	refrigerators	Transparent	0.126V + 3.51
39			
40	Reach-in cabinets, pass-through		
41	cabinets and roll-in or roll-through	Solid	0.40V + 1.38
42	cabinets that are freezers	Transparent	0.75V + 4.10
43			
44	Reach-in cabinets that are		
45	refrigerator-freezers with an		

1	AV of 5.19 or higher	Solid	0.27AV - 0.71	
2	hWh - hilewott hours			
$\frac{3}{4}$	kWh = kilowatt hours			
4 5	V = total volume (ft ³)			
6		3	3	
7	AV = adjusted volume = 1.63 x freeze	er volume (ft) + refri	gerator volume (ft)	
8				
9	(b) For numbers of this subsection			
10 11	(b) For purposes of this subsection(A) "Pulldown" designates product		lly stocked refrigerator with haverages	
11 12	(A) "Pulldown" designates products designed to take a fully stocked refrigerator with beverages at 90 degrees Fahrenheit and cool those beverages to a stable temperature of 38 degrees Fahrenhei			
13	within 12 hours or less.			
14	(B) Daily energy consumption sha	all be measured in ac	cordance with the American National	
15	Standards Institute/American Society of	of Heating, Refrigeratin	g and Air-Conditioning Engineers test	
16	method 117-2002, except that:			
17	. .	-through and roll-throu	gh refrigerators and freezers must re-	
18	main closed throughout the test; and			
19		0	rs shall be adjusted to obtain the fol-	
20	lowing product temperatures, in accord			
21	sion 2, Chapter 4, Article 4, section 16	04, table A-2, effective	November 27, 2002:	
22 23				
23 24	Product or compartment type	Integrated average p	roduct temperature	
25	Trouble of comparement type	in degrees Fahrenhei		
26			-	
27	Refrigerator	38 ± 2		
28	Freezer	0 ± 2		
29				
30				
31	-		nd of five watts or less per illuminated	
32	face. For purposes of this subsection, in			
33	conditions for testing established by t			
34	Star exit sign program version 3.0. Illu	iminated exit signs mus	st also meet all applicable building and	
35	safety codes.			
36			ith lamps rated greater than or equal	
37	to 150 watts but less than or equal to	500 watts may not co	ontain a probe-start metal halide lamp	
38 20	ballast.	o DC norman aunalian r	non-stanting on on often July 1 2009	
39 40	must meet the requirements in the following		nanufactured on or after July 1, 2008,	
40 41	must meet the requirements in the following	iowing table.		
41				
43	Nameplate output	Minimum Efficiency	in Active Mode	
44	· ·			
45	<1 Watt	0.5 * Nameplate Out	put	

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Watts ogarithm of the name n, efficiency of singl ith the United State Efficiency of Single-' 2004. The efficiency volts at 60 Hz.	sumption in No-Load Mode eplate output expressed in Watts le-voltage external AC to DC powers s Environmental Protection Agency's Voltage External AC to DC and AC in the active and no-load modes o ctured on or after January 1, 2008
Aximum Energy Cons Watts Ogarithm of the name of the name n, efficiency of single ith the United State Efficiency of Single- 2004. The efficiency volts at 60 Hz. Lector lamps manufa following table: nimum average lamp mens per watt) 5 0 5 0 5	eplate output expressed in Watts le-voltage external AC to DC powe s Environmental Protection Agency Voltage External AC to DC and AC in the active and no-load modes o ctured on or after January 1, 2008
Watts ogarithm of the name n, efficiency of single ith the United State Efficiency of Single-' 2004. The efficiency volts at 60 Hz. lector lamps manufa following table: nimum average lamp mens per watt) 5 0 5 0 5	eplate output expressed in Watts le-voltage external AC to DC powe s Environmental Protection Agency Voltage External AC to DC and Ac in the active and no-load modes o ctured on or after January 1, 2008
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n, efficiency of singl ith the United State Efficiency of Single- 2004. The efficiency volts at 60 Hz. lector lamps manufa following table: nimum average lamp mens per watt) 5 0 5 0 5	le-voltage external AC to DC powe s Environmental Protection Agency ³ Voltage External AC to DC and A in the active and no-load modes o ctured on or after January 1, 2008
n, efficiency of singl ith the United State Efficiency of Single-' 2004. The efficiency volts at 60 Hz. lector lamps manufa following table: 	le-voltage external AC to DC powe s Environmental Protection Agency ³ Voltage External AC to DC and A in the active and no-load modes o ctured on or after January 1, 2008
n, efficiency of singl ith the United State Efficiency of Single-' 2004. The efficiency volts at 60 Hz. lector lamps manufa following table: 	le-voltage external AC to DC powe s Environmental Protection Agency Voltage External AC to DC and A in the active and no-load modes o ctured on or after January 1, 2008
ith the United State Efficiency of Single-V 2004. The efficiency volts at 60 Hz. lector lamps manufa following table: 	s Environmental Protection Agency Voltage External AC to DC and A in the active and no-load modes o ctured on or after January 1, 2008
ith the United State Efficiency of Single-V 2004. The efficiency volts at 60 Hz. lector lamps manufa following table: 	s Environmental Protection Agency Voltage External AC to DC and A in the active and no-load modes o ctured on or after January 1, 2008
lector lamps manufa following table: 	
following table: nimum average lamp mens per watt) 5 0 5 0 5	
nimum average lamı mens per watt) 5 0 5 0 5	ρ efficiency
mens per watt) 5 0 5 0 5	o efficiency
mens per watt) 5 0 5 0 5	o efficiency
mens per watt) 5 0 5 0 5	
5 0 5 0 5	
0 5 0 5	
5 0 5	
0 5	
5	
0	
in accordance with	the applicable test method found in
	re uses more than 190 watts if an
-	inserted in a socket and cause th
en operated at full b	-
e maximum and nomi	inal wattage that does not exceed th
Maximum Wattaga	Nominal Wattage
-	(at 25°C)
	Maximum Wattage (at 74°C)

1	8" red ball (or 200 mm circular)	13	8	
2	12" red arrow (or 300 mm arrow)	12	9	
3				
4	12" green ball (or 300 mm circular)	15	15	
5	8" green ball (or 200 mm circular)	12	12	
6	12" green arrow (or 300 mm arrow)	11	11	
7				

8

9 (b) For purposes of this subsection, maximum wattage and nominal wattage shall be measured 10 in accordance with and under the testing conditions specified by the Institute for Transportation 11 Engineers "Interim LED Purchase Specification, Vehicle Traffic Control Signal Heads, Part 2: Light 12 Emitting Diode Vehicle Traffic Signal Modules."

(11) Unit heaters must be equipped with intermittent ignition devices and must have either
 power venting or an automatic flue damper.

15 (12) Bottle-type water dispensers designed for dispensing both hot and cold water may not have standby energy consumption greater than 1.2 kilowatt-hours per day, as measured in accordance 16 with the test criteria contained in Version 1 of the United States Environmental Protection 17 18 Agency's "Energy Star Program Requirements for Bottled Water Coolers," except that units with an integral, automatic timer may not be tested using Section D, "Timer Usage," of the test criteria. 19 20(13) Commercial hot food holding cabinets shall have a maximum idle energy rate of 40 watts per cubic foot of interior volume, as determined by the "Idle Energy Rate-dry Test" in ASTM 2122F2140-01, "Standard Test Method for Performance of Hot Food Holding Cabinets" published by 23ASTM International. Interior volume shall be measured in accordance with the method shown in the United States Environmental Protection Agency's "Energy Star Program Requirements for Com-24 25mercial Hot Food Holding Cabinets," as in effect on August 15, 2003.

(14) Compact audio products may not use more than two watts in standby passive mode for those
without a permanently illuminated clock display and four watts in standby passive mode for those
with a permanently illuminated clock display, as measured in accordance with International
Electrotechnical Commission (IEC) test method 62087:2002(E), "Methods of Measurement for the
Power Consumption of Audio, Video, and Related Equipment."

(15) Digital versatile disc players and digital versatile disc recorders may not use more than
 three watts in standby passive mode, as measured in accordance with International Electrotechnical
 Commission (IEC) test method 62087:2002(E), "Methods of Measurement for the Power Consumption
 of Audio, Video, and Related Equipment."

35 (16) Portable electric spas may not have a standby power greater than $5(V^{-5})$ Watts where 36 V=the total volume in gallons, as measured in accordance with the test method for portable electric 37 spas contained in the California Code of Regulations, Title 20, Division 2, Chapter 4, section 1604.

(17)(a) Walk-in refrigerators and walk-in freezers with the applicable motor types shown in the
 table below shall include the required components shown.

40

43

41 42

Motor Type

Required Components

44AllInterior lights: light sources with an efficacy of 4545lumens per watt or more, including ballast losses

	(if any)		
All	Automatic door closers that firmly close all		
	reach-in doors		
All	Automatic door closers that firmly close all walk-in		
	doors no wider than 3.9 feet and no higher than		
	6.9 feet that have been closed to within one		
	inch of full closure		
All	Wall, ceiling and door insulation at least R-28 for		
	refrigerators and at least R-34 for freezers		
All	Floor insulation at least R-28 for freezers (no		
	requirement for refrigerators)		
Condenser fan motors of	(i) Electronically commutated motors,		
under one horsepower	(ii) Permanent split capacitor-type motors, or		
	(iii) Polyphase motors of ½ horsepower or more		
Circula mbana anonanatan			
Single-phase evaporator	Electronically commutated motors		
fan motors of under one			
horsepower and less			
horsepower and less			
horsepower and less than 460 volts	quiroments in perpendent (a) of this subsection, welk in refrigerators on		
horsepower and less than 460 volts (b) In addition to the re			
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp	arent reach-in doors shall meet the following requirements:		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in	arent reach-in doors shall meet the following requirements:		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill;	arent reach-in doors shall meet the following requirements: n doors shall be of triple pane glass with either heat-reflective treated		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has	arent reach-in doors shall meet the following requirements: n doors shall be of triple pane glass with either heat-reflective treaters s an anti-sweat heater without anti-sweat controls, the appliance shall		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has have a total door rail, glass	arent reach-in doors shall meet the following requirements: n doors shall be of triple pane glass with either heat-reflective treater s an anti-sweat heater without anti-sweat controls, the appliance shal and frame heater power draw of no more than 40 watts if it is a freeze		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has have a total door rail, glass or 17 watts if it is a refrige	arent reach-in doors shall meet the following requirements: In doors shall be of triple pane glass with either heat-reflective treater Is an anti-sweat heater without anti-sweat controls, the appliance shall and frame heater power draw of no more than 40 watts if it is a freeze rator per foot of door frame width; and		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has have a total door rail, glass or 17 watts if it is a refrige (C) If the appliance has	arent reach-in doors shall meet the following requirements: n doors shall be of triple pane glass with either heat-reflective treate s an anti-sweat heater without anti-sweat controls, the appliance sha and frame heater power draw of no more than 40 watts if it is a freeze rator per foot of door frame width; and an anti-sweat heater with anti-sweat heat controls, and the total doo		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has have a total door rail, glass or 17 watts if it is a refrige (C) If the appliance has	arent reach-in doors shall meet the following requirements: n doors shall be of triple pane glass with either heat-reflective treate s an anti-sweat heater without anti-sweat controls, the appliance sha and frame heater power draw of no more than 40 watts if it is a freeze rator per foot of door frame width; and an anti-sweat heater with anti-sweat heat controls, and the total door		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has have a total door rail, glass or 17 watts if it is a refrige (C) If the appliance has rail, glass, and frame heater	arent reach-in doors shall meet the following requirements: In doors shall be of triple pane glass with either heat-reflective treate as an anti-sweat heater without anti-sweat controls, the appliance shall and frame heater power draw of no more than 40 watts if it is a freeze rator per foot of door frame width; and an anti-sweat heater with anti-sweat heat controls, and the total door r power draw is 40 watts or greater per foot of door frame width if it i		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has have a total door rail, glass or 17 watts if it is a refrige (C) If the appliance has rail, glass, and frame heater a freezer or 17 watts or gre	arent reach-in doors shall meet the following requirements: In doors shall be of triple pane glass with either heat-reflective treate as an anti-sweat heater without anti-sweat controls, the appliance shall and frame heater power draw of no more than 40 watts if it is a freeze rator per foot of door frame width; and an anti-sweat heater with anti-sweat heat controls, and the total doo r power draw is 40 watts or greater per foot of door frame width if it is eater per foot of door frame width if it is a refrigerator, the anti-sweat		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has have a total door rail, glass or 17 watts if it is a refrige (C) If the appliance has rail, glass, and frame heater a freezer or 17 watts or gree heat controls shall reduce t	arent reach-in doors shall meet the following requirements: In doors shall be of triple pane glass with either heat-reflective treate as an anti-sweat heater without anti-sweat controls, the appliance shall and frame heater power draw of no more than 40 watts if it is a freeze rator per foot of door frame width; and an anti-sweat heater with anti-sweat heat controls, and the total doo r power draw is 40 watts or greater per foot of door frame width if it is eater per foot of door frame width if it is a refrigerator, the anti-sweat		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has have a total door rail, glass or 17 watts if it is a refrige (C) If the appliance has rail, glass, and frame heater a freezer or 17 watts or gree heat controls shall reduce t	arent reach-in doors shall meet the following requirements: In doors shall be of triple pane glass with either heat-reflective treated as an anti-sweat heater without anti-sweat controls, the appliance shall and frame heater power draw of no more than 40 watts if it is a freeze rator per foot of door frame width; and an anti-sweat heater with anti-sweat heat controls, and the total doo r power draw is 40 watts or greater per foot of door frame width if it is eater per foot of door frame width if it is a refrigerator, the anti-sweat he energy use of the anti-sweat heater in an amount corresponding t air outside the door or to the condensation on the inner glass pane.		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has have a total door rail, glass or 17 watts if it is a refrige (C) If the appliance has rail, glass, and frame heater a freezer or 17 watts or gre heat controls shall reduce t the relative humidity in the (18) A television must a	arent reach-in doors shall meet the following requirements: In doors shall be of triple pane glass with either heat-reflective treated and frame heater without anti-sweat controls, the appliance shall and frame heater power draw of no more than 40 watts if it is a freeze rator per foot of door frame width; and an anti-sweat heater with anti-sweat heat controls, and the total doo r power draw is 40 watts or greater per foot of door frame width if it is eater per foot of door frame width if it is a refrigerator, the anti-sweat he energy use of the anti-sweat heater in an amount corresponding t air outside the door or to the condensation on the inner glass pane.		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has have a total door rail, glass or 17 watts if it is a refrige (C) If the appliance has rail, glass, and frame heater a freezer or 17 watts or gree heat controls shall reduce t the relative humidity in the (18) A television must a 15 minutes without video or	arent reach-in doors shall meet the following requirements: In doors shall be of triple pane glass with either heat-reflective treate as an anti-sweat heater without anti-sweat controls, the appliance shall and frame heater power draw of no more than 40 watts if it is a freeze rator per foot of door frame width; and an anti-sweat heater with anti-sweat heat controls, and the total doo r power draw is 40 watts or greater per foot of door frame width if it is eater per foot of door frame width if it is a refrigerator, the anti-sweat he energy use of the anti-sweat heater in an amount corresponding t air outside the door or to the condensation on the inner glass pane. Automatically enter television standby-passive mode after a maximum or r audio input on the selected input mode. A television must enter television		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has have a total door rail, glass or 17 watts if it is a refrige (C) If the appliance has rail, glass, and frame heater a freezer or 17 watts or gre heat controls shall reduce t the relative humidity in the (18) A television must a 15 minutes without video or vision standby-passive mode	arent reach-in doors shall meet the following requirements: In doors shall be of triple pane glass with either heat-reflective treated and frame heater power draw of no more than 40 watts if it is a freeze rator per foot of door frame width; and an anti-sweat heater with anti-sweat heat controls, and the total doo r power draw is 40 watts or greater per foot of door frame width if it is eater per foot of door frame width if it is a refrigerator, the anti-sweat he energy use of the anti-sweat heater in an amount corresponding to air outside the door or to the condensation on the inner glass pane. Intomatically enter television standby-passive mode after a maximum or r audio input on the selected input mode. A television must enter tele when turned off with the remote control unit or via an internal signal		
horsepower and less than 460 volts (b) In addition to the re walk-in freezers with transp (A) Transparent reach-in glass or gas fill; (B) If the appliance has have a total door rail, glass or 17 watts if it is a refrige (C) If the appliance has rail, glass, and frame heater a freezer or 17 watts or gree heat controls shall reduce to the relative humidity in the (18) A television must a 15 minutes without video on vision standby-passive mode The peak luminance of a television	n doors shall be of triple pane glass with either heat-reflective treated s an anti-sweat heater without anti-sweat controls, the appliance shal and frame heater power draw of no more than 40 watts if it is a freeze rator per foot of door frame width; and an anti-sweat heater with anti-sweat heat controls, and the total doo r power draw is 40 watts or greater per foot of door frame width if it is eater per foot of door frame width if it is a refrigerator, the anti-sweat he energy use of the anti-sweat heater in an amount corresponding to		

		Maximum On	
	Television	Mode Power	
	Standby-	Usage (P in	Minimum
Viewable	passive Mode	Watts, A is	Power
Screen	Power Usage	Viewable	Factor for
Area	(Watts)	Screen area)	$(P \ge 100W)$
<1400 sq. in	1 W	$P \le 0.12 x A + 25$	0.9
\geq 1400 sq. in	3 W	NA	NA
(19)(a) Large ba	ttery charger syst	ems must meet the minir	num efficiencies i
	Standards	for Large Battery Charg	er Systems
Performance		Standard	
Parameter			
Charge Return			
Factor	100 percent	$Crf \leq 1.10$	
	Depth of		
	Discharge		
	80 percent	$Crf \leq 1.10$	
	Depth of		
	Discharge		
	40 percent	$Crf \leq 1.15$	
	Depth of		
	Discharge		
Power Conversion			
Efficiency		\geq 89 percent	
		porconv	
Power Factor		≥ 0.90	
Battery Maintenand	e		
Mode Power		\leq 10 +0.0012E _b W	
		b	
$(E_{h} = battery)$			
$(E_{b} = battery)$ capacity of			
5			
capacity of			
capacity of			

3 1 5 5		abparagraph (B) of this paragraph, inductive charger systems and small at meet the minimum energy efficiency standards in the following table:		
7	Standard	ls for Inductive and Small Battery Charger Systems		
3	Performance	Standard		
)	Parameter			
)				
_	Maximum 24-hour	For E_{b} of 2.5 Wh or less: 16 x N		
2	charge and			
3	maintenance	For $E_{b} > 2.5$ Wh and		
ŀ	energy (Wh)	\leq 100 Wh: 12 x N+1.6E		
5	$(E_{b} = capacity)$			
5	of all batteries in	For $E_{b} > 100$ Wh and		
7	ports and N =	\leq 1000 Wh: 22 x N+1.5E _b		
3	number of charger			
)	ports)	For $E_{b} > 1000$ Wh:		
)		$36.4 \text{ x N} + 1.486 \text{E}_{b}$		
2	Battery Maintenance	The sum of battery maintenance mode power and no		
3	Mode Power and No	battery mode power must be less than or equal to:		
Ļ	Battery Mode	$1 \ge N+0.0021 \ge E_{b}$		
5	Power (W)			
6	Power Factor			
7	$(E_{b} = capacity)$			
3	of all batteries in			
)	ports and $N =$			
)	number of charger			
L	ports)			
2				
3				
ŀ	(B) The requirements in subparagraph (A) of this paragraph must be met by:			
5	(i) Small battery charger systems for sale at retail that are not USB charger systems with a			
5	battery capacity of 20 watt-hours or more and that are manufactured on or after January 1, 2014.			
7	(ii) Small battery charger systems for sale at retail that are USB charger systems with a battery			
3	capacity of 20 watt-hours or more and that are manufactured on or after January 1, 2014.			
)	January 1, 2017.	er systems that are not sold at retail that are manufactured on or after		
)		stems manufactured on or after January 1, 2014, unless the inductive		
2		n one watt in battery maintenance mode, less than one watt in no bat-		
}		f one watt in battery maintenance mode, less than one watt in no bat-		
ļ	nance mode test.			

1 2014, for small battery charger systems for sale at retail, which may not consume more than 0.8 2 $(0.0021 \text{xE}_{\text{b}})$ watts in battery maintenance mode, where (E_b) is the battery capacity in watt-hours.

3 (vi) Small battery charger systems not sold at retail, manufactured after January 1, 2017, which 4 may not consume more than 0.8 (0.0021xE_{b}) watts in battery maintenance mode, where (E_b) is the 5 battery capacity in watt-hours.

6 (C) The requirements in subparagraph (A) of this paragraph do not need to be met by an à la 7 carte charger that is:

8 (i) Provided separately from and subsequent to the sale of a small battery charger system de-9 scribed in this paragraph;

(ii) Necessary as a replacement for, or as a replacement component of, a small battery charger
 system; and

12 (iii) Provided by a manufacturer directly to a consumer or to a service or repair facility.

(20) A high light output double-ended quartz halogen lamp must have a minimum effi ciency of:

(a) 27 lumens per watt for lamps with a minimum rated initial lumen value of greater
 than 6,000 lumens and a maximum initial lumen value of 15,000 lumens; or

(b) 34 lumens per watt for lamps with a rated initial lumen value of greater than 15,000
 and less than 40,000 lumens.

SALE

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20 21

22

SECTION 5. ORS 469.238 is amended to read:

469.238. (1) Except as provided in subsection (2) of this section, a person may not sell or offer 23for sale a new commercial clothes washer, commercial prerinse spray valve, commercial refrigerator 24 or freezer, illuminated exit sign, single-voltage external AC to DC power supply, state-regulated in-25candescent reflector lamp, torchiere, traffic signal module, automatic commercial ice cube machine, 2627metal halide lamp fixture, unit heater, bottle-type water dispenser, commercial hot food holding cabinet, compact audio product, digital versatile disc player, digital versatile disc recorder, portable 28electric spa, walk-in refrigerator, [or] walk-in freezer, television, inductive charger system, large 2930 battery charger system or small battery charger system unless the energy efficiency of the new 31 product meets or exceeds the minimum energy efficiency standards specified in ORS 469.233.

(2) A person may sell or offer for sale a new product not meeting efficiency standards specified
 in subsection (1) of this section if the product is:

34 (a) Manufactured in this state and sold outside this state;

35 (b) Manufactured outside this state and sold at wholesale inside this state for final retail sale 36 and installation outside this state;

37 (c) Installed in a mobile or manufactured home at the time of construction; or

38 (d) Designed expressly for installation and use in recreational vehicles.

39

SECTION 6. ORS 469.238, as amended by section 5 of this 2013 Act, is amended to read:

40 469.238. (1) Except as provided in subsection (2) of this section, a person may not sell or offer 41 for sale a new commercial clothes washer, commercial prerinse spray valve, commercial refrigerator 42 or freezer, illuminated exit sign, single-voltage external AC to DC power supply, state-regulated in-43 candescent reflector lamp, torchiere, traffic signal module, automatic commercial ice cube machine, 44 metal halide lamp fixture, unit heater, bottle-type water dispenser, commercial hot food holding 45 cabinet, compact audio product, digital versatile disc player, digital versatile disc recorder, portable

electric spa, walk-in refrigerator, walk-in freezer, television, inductive charger system, large battery 1 2 charger system, [or] small battery charger system or high light output double-ended quartz halogen lamp unless the energy efficiency of the new product meets or exceeds the minimum energy 3 efficiency standards specified in ORS 469.233. 4 $\mathbf{5}$ (2) A person may sell or offer for sale a new product not meeting efficiency standards specified in subsection (1) of this section if the product is: 6 $\mathbf{7}$ (a) Manufactured in this state and sold outside this state; 8 (b) Manufactured outside this state and sold at wholesale inside this state for final retail sale 9 and installation outside this state; (c) Installed in a mobile or manufactured home at the time of construction; or 10 (d) Designed expressly for installation and use in recreational vehicles. 11 12 **INSTALLATION** 13 14 15SECTION 7. ORS 469.239 is amended to read: 16 469.239. (1) Except as provided in subsection (2) of this section, a person may not install a new 17 commercial clothes washer, commercial prerinse spray valve, commercial refrigerator or freezer, il-18 luminated exit sign, single-voltage external AC to DC power supply, state-regulated incandescent reflector lamp, torchiere, traffic signal module, automatic commercial ice cube machine, metal halide 19 20lamp fixture, unit heater, bottle-type water dispenser, commercial hot food holding cabinet, compact audio product, digital versatile disc player, digital versatile disc recorder, portable electric spa, 2122walk-in refrigerator, [or] walk-in freezer, television, inductive charger system, large battery 23charger system or small battery charger system for compensation unless the energy efficiency of the new product meets or exceeds the minimum energy efficiency standards specified in ORS 24 25469.233.

(2) A person may install a new product not meeting efficiency standards specified in subsection(1) of this section if the product is:

28 (a) Installed in a mobile or manufactured home at the time of construction; or

29 (b) Designed expressly for installation and use in recreational vehicles.

30 **SECTION 8.** ORS 469.239, as amended by section 7 of this 2013 Act, is amended to read:

31 469.239. (1) Except as provided in subsection (2) of this section, a person may not install a new 32commercial clothes washer, commercial prerinse spray valve, commercial refrigerator or freezer, illuminated exit sign, single-voltage external AC to DC power supply, state-regulated incandescent 33 34 reflector lamp, torchiere, traffic signal module, automatic commercial ice cube machine, metal halide lamp fixture, unit heater, bottle-type water dispenser, commercial hot food holding cabinet, compact 35 audio product, digital versatile disc player, digital versatile disc recorder, portable electric spa, 36 37 walk-in refrigerator, walk-in freezer, television, inductive charger system, large battery charger 38 system, [or] small battery charger system or high light output double-ended quartz halogen lamp for compensation unless the energy efficiency of the new product meets or exceeds the minimum 39 40 energy efficiency standards specified in ORS 469.233.

(2) A person may install a new product not meeting efficiency standards specified in subsection
(1) of this section if the product is:

43 (a) Installed in a mobile or manufactured home at the time of construction; or

44 (b) Designed expressly for installation and use in recreational vehicles.

45

1	MISCELLANEOUS
2	
3	SECTION 9. The unit captions used in this 2013 Act are provided only for the convenience
4	of the reader and do not become part of the statutory law of this state or express any leg-
5	islative intent in the enactment of this 2013 Act.
6	SECTION 10. (1) The amendments to ORS 469.229 by section 2 of this 2013 Act become
7	operative on January 1, 2016.
8	(2) The amendments to ORS 469.233 by section 4 of this 2013 Act become operative on
9	January 1, 2016.
10	(3) The amendments to ORS 469.238 by section 6 of this 2013 Act become operative on
11	January 1, 2016.
12	(4) The amendments to ORS 469.239 by section 8 of this 2013 Act become operative on
13	January 1, 2016.
14	(5) The minimum energy efficiency standards specified in ORS 469.233 (19)(b) do not apply
15	to a small battery charger system that is made available by a manufacturer directly to a
16	consumer or to a service or repair facility, as a service part or spare part, after and separate
17	from the original sale of the product that requires the small battery charger system as a
18	service part or spare part, or for a battery charger that is not sold at retail, before July 1,
19	2017.
20	