

1 TO THE HONORABLE SENATE:

2 The Committee on Natural Resources and Energy to which was referred
3 House Bill No. 410 entitled “An act relating to adding products to Vermont’s
4 energy efficiency standards for appliances and equipment” respectfully reports
5 that it has considered the same and recommends that the Senate propose to the
6 House that the bill be amended by striking out all after the enacting clause and
7 inserting in lieu thereof the following:

8 * * * Appliance Efficiency * * *

9 Sec. 1. PURPOSE

10 (a) In 9 V.S.A. § 2792, the General Assembly found that efficiency
11 standards for products sold or installed in the State provide benefits to
12 consumers and businesses, including saving money on utility bills, saving
13 energy and thereby reducing the environmental impacts of energy
14 consumption, reducing or delaying the need for new power plants and
15 upgrades to the electric transmission and distribution system, and allowing the
16 energy cost savings to be spent on other goods and services within the State’s
17 economy.

18 (b) The purpose of this act is to obtain the benefits found in 9 V.S.A.
19 § 2792 for the following products to which the State’s efficiency standards
20 under 9 V.S.A. chapter 74 do not currently apply: air compressors,
21 commercial dishwashers, commercial fryers, commercial hot-food holding

1 cabinets, commercial steam cookers, computers and computer monitors,
2 faucets, high color rendering index fluorescent lamps, portable air
3 conditioners, portable electric spas, residential ventilating fans, showerheads,
4 spray sprinkler bodies, ~~telephones~~, uninterruptible power supplies, urinals,
5 ~~water closets~~, and water coolers.

6 Sec. 2. 9 V.S.A. § 2793 is amended to read:

7 § 2793. DEFINITIONS

8 As used in this chapter:

9 * * *

10 (16) With respect to air compressors, the following definitions apply:

11 (A) “Air compressor” means a compressor that is designed to
12 compress air that has an inlet open to the atmosphere or other source of air and
13 that consists of the bare compressor, also known as the compression element;
14 one or more drivers; mechanical equipment to drive the compression element;
15 and any ancillary equipment.

16 (B) “Compressor” means a machine or apparatus that converts
17 different types of energy into the potential energy of gas pressure for
18 displacement and compression of gaseous media to any higher-pressure values
19 above atmospheric pressure and has a pressure ratio at full-load operating
20 pressure greater than 1.3.

1 (17) “Commercial dishwasher” means a machine designed to clean and
2 sanitize plates, pots, pans, glasses, cups, bowls, utensils, and trays by applying
3 sprays of detergent solution, with or without blasting media granules, and a
4 sanitizing rinse. The phrase “commercial dishwasher” does not include
5 dishwashers intended for consumer use as defined in 10 C.F.R. § 430.2.

6 (18) “Commercial fryer” means an appliance, including a cooking
7 vessel, in which oil is placed to such a depth that the cooking food is supported
8 by displacement of the cooking fluid rather than by the bottom of the vessel.
9 Heat is delivered to the cooking fluid by means of an immersed electric
10 element of band-wrapped vessel or by heat transfer from gas burners either
11 through the walls of the fryer or through tubes passing through the cooking
12 fluid.

13 (19) “Commercial hot-food holding cabinet” means a heated, fully
14 enclosed compartment with one or more solid or transparent doors designed to
15 maintain the temperature of hot food that has been cooked using a separate
16 appliance. The phrase “commercial hot-food holding cabinet” does not include
17 heated glass merchandizing cabinets, drawer warmers, or cook-and-hold
18 appliances.

19 (20) “Commercial steam cooker” means a device with one or more
20 food-steaming compartments in which the energy in the steam is transferred to

1 the food by direct contact. A commercial steam cooker may also be known as
2 a compartment steamer.

3 (21) “Computer” means a device that performs logical operations
4 and processes data, whether or not input devices or displays are included
5 when the device is shipped.

6 (A) At a minimum, a computer includes:

7 (i) a central processing unit (CPU) to perform operations or, if
8 no CPU is present, then the device functions as a client gateway to a
9 server, and the server acts as a computational CPU;

10 (ii) the ability to support user input devices such as a
11 keyboard, mouse, or touch pad; and

12 (iii) an integrated display screen or the ability to support an
13 external display screen to output information.

14 (B) The term “computer” includes both stationary and portable
15 units and includes a desktop computer, a portable all-in-one, a notebook
16 computer, a mobile gaming system, a high-expandability computer, a
17 small-scale server, a thin client, and a workstation.

18 (C) The term “computer” does not include a tablet, a game
19 console, a television, a device with an integrated and primary display that
20 has a screen size of 20 square inches or less, a server other than a small-
21 scale server, or an industrial computer.

1 ~~(22) “Computer monitor” means an analog or digital device~~
2 ~~composed of a display screen and associated electronics that has a~~
3 ~~diagonal screen size greater than or equal to 17 inches and less than or~~
4 ~~equal to 61 inches, that has a pixel density of greater than 5,000 pixels per~~
5 ~~square inch (psi), and that is designed primarily for the display of~~
6 ~~computer-generated signals for viewing by one person in a desk-based~~
7 ~~environment. The term “computer monitor” does not include:~~

8 ~~(A) displays with integrated or replaceable batteries designed to~~
9 ~~support primary operation without AC mains or external DC power, such~~
10 ~~as electronic readers, mobile phones, tablets, battery-powered digital~~
11 ~~picture frames; or~~

12 ~~(B) a television or signage display.~~

13 ~~(23) “ENERGY STAR Program” means the federal program initiated by~~
14 ~~the U.S. Environmental Protection Agency pursuant to 42 U.S.C. § 7403(g)~~
15 ~~that includes certification of energy-saving products, buildings, and tools, and~~
16 ~~includes other resources for saving energy.~~

17 ~~(22) With respect to faucets and showerheads, the following definitions~~
18 ~~apply:~~

19 ~~(A) “Faucet” means a lavatory faucet, kitchen faucet, metering~~
20 ~~faucet, public lavatory faucet, or replacement aerator for a lavatory, public~~
21 ~~lavatory, or kitchen faucet. As used in this subdivision (24)(A):~~

1 (i) “Metering faucet” means a fitting that, when turned on, will
2 gradually shut itself off over a period of several seconds.

3 (ii) “Public lavatory faucet” means a fitting intended to be
4 installed in nonresidential bathrooms that are exposed to walk-in traffic.

5 (iii) “Replacement aerator” means an aerator sold as a
6 replacement, separate from the faucet to which it is intended to be attached.

7 (B) “Showerhead” means an accessory to a supply fitting for
8 spraying water onto a bather, typically from an overhead position. The term
9 includes a body spray and handheld shower. As used in this subdivision

10 **(22)(B):**

11 (i) “Body spray” means a shower device for spraying water onto a
12 bather other than from the overhead position.

13 (ii) “Handheld shower” means a showerhead that can be held or
14 fixed in place for the purpose of spraying water onto a bather and that is
15 connected to a flexible hose.

16 (23) “High color rendering index (CRI) fluorescent lamp” means a
17 fluorescent lamp with a color rendering index of 87 or greater that is not a
18 compact fluorescent lamp.

19 **(24) “Luminaire” means a complete lighting unit consisting of a**
20 **fluorescent lamp or lamps, together with parts designed to distribute the**

1 **light, to position and protect such lamps, and to connect such lamps to the**
2 **power supply through the ballast.**

3 (25) “Portable electric spa” means a factory-built electric spa or hot tub,
4 which may or may not include any combination of integral controls, water
5 heating, or water circulating equipment.

6 (26) With respect to portable air conditioners, the following definitions
7 apply:

8 (A) “Portable air conditioner” means a portable encased assembly,
9 other than a packaged terminal air conditioner, room air conditioner, or
10 dehumidifier, that includes a source of refrigeration; delivers cooled,
11 conditioned air to an enclosed space; and is powered by single-phase electric
12 current. The assembly may include additional means for air circulation and
13 heating and may be a single-duct or a dual-duct portable air conditioner.

14 (B) “Single-duct portable air conditioner” means a portable air
15 conditioner that draws all of the condenser inlet air from the conditioned space
16 without the means of a duct and discharges the condenser outlet air outside the
17 conditioned space through a single duct attached to an adjustable window
18 bracket.

19 (C) “Dual-duct portable air conditioner” means a portable air
20 conditioner that draws some or all of the condenser inlet air from outside the
21 conditioned space through a duct attached to an adjustable window bracket.

1 may draw additional condenser inlet air from the conditioned space, and
2 discharges the condenser outlet air outside the conditioned space by means of a
3 separate duct attached to an adjustable window bracket.

4 (27) “Residential ventilating fan” means a ceiling, wall-mounted, or
5 remotely mounted in-line fan designed to be used in a bathroom or utility
6 room, ~~or a kitchen range hood~~, whose purpose is to move air from inside the
7 building to the outdoors.

8 (28) With respect to spray sprinkler bodies, the following definitions
9 apply:

10 (A) “Pressure regulator” means a device that maintains constant
11 operating pressure immediately downstream from the device, given higher
12 pressure upstream.

13 (B) “Spray sprinkler body” means the exterior case or shell of a
14 sprinkler incorporating a means of connection to the piping system designed to
15 convey water to a nozzle or orifice.

16 ~~(30) “Telephone” means an electronic product whose primary~~
17 ~~purpose is to transmit and receive sound over a distance using a voice or~~
18 ~~data network. The term does not include a cellular telephone as defined in~~
19 ~~the “ENERGY STAR Program Product Specification for Telephony,”~~
20 ~~Version 3.0.~~

1 **(29) “T12 fluorescent lamp” means a tubular fluorescent lamp to**
2 **which one of the following applies:**

3 **(A) The lamp has a nominal rating of 34 watts, is 48 inches in**
4 **length and one and one-half inches in diameter, and conforms to ANSI**
5 **standard C78.81-2003 (Data Sheet 7881-ANSI-1006-1). Such a lamp is**
6 **often referred to as an “F34T12 lamp” or an “F40T12/ES lamp.”**

7 **(B) The lamp has a nominal rating of 40 watts, is 48 inches in**
8 **length and one and one-half inches in diameter, and conforms to ANSI**
9 **standard C78.81-2003 (Data Sheet 7881-ANSI-1010-1). Such a lamp is**
10 **often referred tas an “F40T12 lamp.”**

11 **(C) The lamp has a nominal rating of 60 watts, is 96 inches in**
12 **length and one and one-half inches in diameter, and conforms to ANSI**
13 **standard C78.81-2003 (Data Sheet 7881-ANSI-3006-1). Such a lamp is**
14 **often referred to an “F96T12/ES lamp.”**

15 **(D) The lamp has a nominal rating of 75 watts, is 96 inches in**
16 **length and one and one-half inches in diameter, and conforms to ANSI**
17 **standard C78.81-2003 (Data Sheet 7881-ANSI-3007-1). Such a lamp is**
18 **often referred to as an “F96T12 lamp.”**

19 **(E) The lamp has a nominal rating of 95 watts, is 96 inches in**
20 **length and one and one-half inches in diameter, and conforms to ANSI**

1 standard C78.81-2003 (Data Sheet 7881-ANSI-1017-1). Such a lamp is
2 often referred to as an “F96T12HO/ES lamp.”

3 (F) The lamp has a nominal rating of 110 watts, is 96 inches in
4 length and one and one-half inches in diameter, and conforms to ANSI
5 standard C78.81-2003 (Data Sheet 7881-ANSI-1019-1). Such a lamp is
6 often referred to as an “F96T12HO lamp.”

7 (30) “Uninterruptible power supply” means a battery charger consisting
8 of a combination of convertors, switches, and energy storage devices, such as
9 batteries, constituting a power system that maintains continuity of load power
10 in case of input power failure.

11 (31) With respect to urinals ~~and water closets~~, the following definitions
12 apply:

13 (A) “Dual-flush effective flush volume” means the average flush
14 volume of two reduced flushes and one full flush.

15 (B) “Dual-flush water closet” means a water closet incorporating
16 a feature that allows the user to flush the water closet with either a
17 reduced or a full volume of water.

18 (C) “Plumbing fixture” means an exchangeable device that connects
19 to a plumbing system to deliver and drain away water and waste.

20 (B) “Urinal” means a plumbing fixture that receives only liquid body
21 waste and conveys the waste through a trap into a drainage system.

1 ~~(E) “Water closet” means a plumbing fixture having a water-~~
2 ~~containing receptor that receives liquid and solid body waste through an~~
3 ~~exposed, integral trap into a drainage system.~~

4 (C) “Trough-type urinal” means a urinal designed for simultaneous
5 use by two or more persons.

6 (32) With respect to water coolers, the following definitions apply:

7 (A) “Cold-only unit” means a water cooler that dispenses cold
8 water only.

9 (B) “Cook and cold unit” means a water cooler that dispenses both
10 cold and room-temperature water.

11 (C) “Hot and cold unit” means a water cooler that dispenses both hot
12 and cold water. A hot and cold unit also may dispense room-temperature
13 water.

14 (D) “On demand” means that a water cooler heats water as it is
15 requested, which typically takes a few minutes to deliver.

16 (E) “Storage-type” means that a water cooler stores thermally
17 conditioned water in a tank and the conditioned water is available
18 instantaneously. Storage-type water coolers include point-of-use, dry storage
19 compartment, and bottled water coolers.

20 (F) “Water cooler” means a freestanding device that consumes
21 energy to cool or heat potable water, or both.

1 Sec. 3. 9 V.S.A. § 2794 is amended to read:

2 § 2794. SCOPE

3 (a) The provisions of this chapter apply to the following types of new
4 products sold, offered for sale, or installed in the State:

5 (1) Medium voltage dry-type distribution transformers.

6 (2) Metal halide lamp fixtures.

7 (3) Residential furnaces and residential boilers.

8 (4) Single-voltage external AC to DC power supplies.

9 (5) State-regulated incandescent reflector lamps.

10 (6) General service lamps.

11 (7) Air compressors.

12 (8) Commercial dishwashers.

13 (9) Commercial fryers.

14 (10) Commercial hot-food holding cabinets.

15 (11) Commercial steam cookers.

16 (12) Computers and computer monitors.

17 (13) Faucets.

18 (14) High CRI fluorescent lamps.

19 (15) Portable air conditioners.

20 (16) Portable electric spas.

21 (17) Residential ventilating fans.

1 (18) Showerheads.

2 (19) Spray sprinkler bodies.

3 (20) **Telephones.**

4 ~~(21)~~ Uninterruptible power supplies.

5 (21) Urinals.

6 ~~(23)~~ **Water closets.**

7 (22) Water coolers.

8 (23) Each other product for which the Commissioner is required to
9 adopt an efficiency or water conservation standard by rule pursuant to
10 section 2795 of this title.

11 ~~(8)~~(24) Any other product that may be designated by the Commissioner
12 in accordance with section 2797 of this title.

13 (b) The provisions of this chapter do not apply to:

14 (1) New products manufactured in the State and sold outside the State
15 and the equipment used in manufacturing those products.

16 (2) New products manufactured outside the State and sold at wholesale
17 inside the State for final retail sale and installation outside the State.

18 (3) Products installed in mobile manufactured homes at the time of
19 construction.

20 (4) Products designed expressly for installation and use in recreational
21 vehicles.

1 Sec. 4. 9 V.S.A. § 2795 is amended to read:

2 § 2795. EFFICIENCY AND WATER CONSERVATION STANDARDS

3 (a) The Commissioner shall adopt rules in accordance with the provisions
4 of 3 V.S.A. chapter 25 establishing minimum efficiency standards for the types
5 of new products set forth in section 2794 of this title. The rules shall provide
6 for the following minimum efficiency standards for products sold or installed
7 in this State:

8 * * *

9 (4)(A) Single-voltage external AC to DC power supplies shall meet the
10 energy efficiency requirements of the following table:

11 * * *

12 (C) For purposes of this subdivision (4), the efficiency of single-
13 voltage external AC to DC power supplies shall be measured in accordance
14 with the test methodology specified by the ~~U.S. Environmental Protection~~
15 ~~Agency's Energy Star~~ ENERGY STAR Program, "Test Method for
16 Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-
17 AC Power Supplies (August 11, 2004)."

18 * * *

19 (6) In the rules, the Commissioner shall adopt minimum efficiency and
20 water conservation standards for each product that is subject to a standard
21 under 10 C.F.R. §§ 430 and 431 as those provisions existed on January 19,

1 2017. The minimum standard and the testing protocol for each product shall
2 be the same as adopted in those sections of the Code of Federal Regulations,
3 except that for faucets, showerheads, and urinals, ~~and water closets~~, the
4 minimum standard and testing protocol shall be as otherwise set forth in this
5 section.

6 (7) In the rules, the Commissioner shall adopt a minimum efficacy
7 standard for general service lamps of 45 lumens per watt, when tested in
8 accordance with 10 C.F.R. § 430.23(gg) as that provision existed on
9 January 19, 2017.

10 (8) In this subdivision (8), “final rule” means the document setting forth
11 a final action by the U.S. Department of Energy (DOE) with respect to a final
12 rule for “Energy Conservation Standards for Air Compressors,” docket no.
13 EERE-2013-BT-STD-0040, approved by DOE on December 5, 2016. Air
14 compressors that meet the 12 criteria to be codified under 10 C.F.R.
15 § 431.345(a) and set forth on pages 350 to 351 of the final rule shall meet the
16 requirements contained in Table 1 on page 352 of the final rule using the
17 instructions to be codified under 10 C.F.R. § 431.345(b) and set forth on page
18 353 of the final rule. Compliance with these requirements shall be measured in
19 accordance with 10 C.F.R. Part 431, Subpart T, Appendix A, entitled “Uniform
20 Test Method for Certain Air Compressors,” as in effect on July 3, 2017.

1 (9) Commercial dishwashers included in the scope of the “ENERGY
2 STAR Program Requirements Product Specification for Commercial
3 Dishwashers,” Version 2.0, shall meet the qualification criteria of that
4 specification.

5 (10) Commercial fryers included in the scope of the “ENERGY STAR
6 Program Requirements Product Specification for Commercial Fryers,” Version
7 2.0, shall meet the qualification criteria of that specification.

8 (11) Commercial hot-food holding cabinets shall have a maximum idle
9 energy rate of 40 watts per cubic foot of interior volume, as determined by the
10 “idle energy rate-dry test” in ASTM F2140-11, “Standard Test Method for
11 Performance of Hot-Food Holding Cabinets,” ASTM International (2011).
12 Interior volume shall be measured as prescribed in the “ENERGY STAR
13 Program Requirements Product Specification for Commercial Hot-Food
14 Holding Cabinets,” Version 2.0.

15 (12) Commercial steam cookers shall meet the requirements of the
16 “ENERGY STAR Program Requirements Product Specification for
17 Commercial Steam Cookers,” Version 1.2.

18 (13) Computers and computer monitors shall meet the requirements of
19 20 California Code of Regulations (C.C.R.) § 1605.3(v) and compliance with
20 these requirements shall be measured in accordance with test methods
21 prescribed in 20 C.C.R. § 1604(v).

1 **(A) For the purposes of this subdivision (13), terms used in the**
2 **referenced portions of the C.C.R. shall be as defined in 20 C.C.R. § 1602.**

3 **(B) The rules shall define “computer” and “computer monitor”**
4 **to have the same meaning as set forth in 20 C.C.R. § 1602(v).**

5 **(C) The referenced portions of the C.C.R. shall be those adopted on**
6 **or before the effective date of this section. However, the Commissioner shall**
7 **have authority to amend the rules so that the definitions of “computer”**
8 **and “computer monitor” and the minimum efficiency standards for**
9 **computers and computer monitors conform to subsequently adopted**
10 **modifications to the referenced sections of the C.C.R.**

11 **(14) Faucets, except for metering faucets, and showerheads shall meet**
12 **the standards set forth in this subdivision (14) when tested in accordance with**
13 **10 C.F.R. Part 430, Subpart B, Appendix S, entitled “Uniform Test Method for**
14 **Measuring the Water Consumption of Faucets and Showerheads,” as in effect**
15 **on January 3, 2017.**

16 **(A) Lavatory faucets and replacement aerators shall not exceed a**
17 **maximum flow rate of 1.5 gallons per minute (gpm) at 60 pounds per square**
18 **inch (psi).**

19 **(B) Residential kitchen faucets and replacement aerators shall not**
20 **exceed a maximum flow rate of 1.8 gpm at 60 psi, with optional temporary**

1 flow of 2.2 gpm, provided they default to a maximum flow rate of 1.8 gpm at
2 60 psi after each use.

3 (C) Public lavatory faucets and replacement aerators shall not exceed
4 a maximum flow rate of 0.5 gpm at 60 psi.

5 (D) Showerheads shall not exceed a maximum flow rate of 2.0 gpm
6 at 80 psi.

7 (15) High CRI fluorescent lamps shall meet the minimum efficacy
8 requirements contained in 10 C.F.R. § 430.32(n)(4) as that subdivision existed
9 on January 3, 2017. Compliance with requirements shall be measured in
10 accordance with 10 C.F.R. Part 430, Subpart B, Appendix R, entitled
11 “Uniform Test Method for Measuring Average Lamp Efficacy (LE), Color
12 Rendering Index (CRI), and Correlated Color Temperature (CCT) of Electric
13 Lamps,” as that appendix existed on January 3, 2017.

14 (16) Urinals ~~and water closets~~, other than those ~~trough-type urinals~~
15 ~~and urinals~~ designed and marketed exclusively for use at prisons or mental
16 health facilities, shall ~~meet the standards set forth in this subdivision~~ (16) ~~have~~
17 ~~a maximum flush volume of 0.5 gallons per flush~~ when tested in accordance
18 with 10 C.F.R. Part 430, Subpart B, Appendix T, entitled “Uniform Test
19 Method for Measuring the Water Consumption of Water Closets and Urinals,”
20 as in effect on January 3, 2017 and shall pass the waste extraction test for
21 water closets set forth in Sec. 7.10 of the American Society of Mechanical

1 Engineers (ASME) standard A112.19.2-2013/CSA B.45.1, as that standard
2 exists on the effective date of this section.

3 ~~(A) Urinals, except for trough-type urinals, shall have a~~
4 ~~maximum flush volume of 0.5 gallons per flush.~~

5 ~~(B) Water closets, except for dual-flush tank-type water closets,~~
6 ~~shall have a maximum flush volume of 1.28 gallons per flush.~~

7 ~~(C) Dual-flush tank-type water closets shall have a maximum~~
8 ~~dual-flush effective flush volume of 1.28 gallons per flush.~~

9 (17) Portable air conditioners shall have a Combined Energy Efficiency
10 Ratio (CEER), that is greater than or equal to: $1.04 \times [SACC / (3.7177 \times$
11 $SACC^{0.6384})]$.

12 (A) In this subdivision (17), “SACC” means seasonally adjusted
13 cooling capacity expressed in British thermal units per hour.

14 (B) The CEER shall be measured in accordance with 10 C.F.R. Part
15 430, Subpart B, Appendix CC, entitled “Uniform Test Method for Measuring
16 the Energy Consumption of Portable Air Conditioners,” as in effect on
17 January 3, 2017.

18 (18) Portable electric spas shall meet the requirements of the American
19 National Standard for Portable Electric Spa Energy Efficiency,
20 ANSI/APSP/ICC-14 2014, as that standard exists on the effective date of this
21 section.

1 (19) Residential ventilating fans shall meet the qualification criteria of
2 the “ENERGY STAR Program Requirements Product Specification for
3 Residential Ventilating Fans,” Version 3.2.

4 (20) Spray sprinkler bodies shall include an integral pressure regulator
5 and shall meet the water efficiency and performance criteria and other
6 requirements of the Environmental Protection Agency’s “WaterSense
7 Specification for Spray Sprinkler Bodies,” Version 1.0. However, this
8 subdivision (20) shall not apply to spray sprinkler bodies that are specifically
9 excluded from the scope of that specification.

10 **(21) Telephones included in the scope of the “ENERGY STAR**
11 **Program Product Specification for Telephony,” Version 3.0, shall meet the**
12 **certification criteria of that specification, except that the performance**
13 **requirements for external power supplies in section 3.2.2 of the**
14 **specification shall not apply.**

15 (22) In this subdivision (21), “final rule” means the document setting
16 forth a final action by DOE with respect to a final rule for “Energy
17 Conservation Standards for Uninterruptible Power Supplies,” docket no.
18 EERE-2016-BT-STD-0022, approved by DOE on December 28, 2016.
19 Uninterruptible power supplies that use a National Electrical Manufacturer
20 Association (NEMA) 1-15P or 5-15P input plug and have an alternating
21 current (AC) output shall have an average load-adjusted efficiency that meets

1 or exceed the values shown to be codified under 10 C.F.R. § 430.32(z)(3) and
2 set forth on pages 193–194 of the final rule. Compliance with these
3 requirements shall be measured in accordance with 10 C.F.R. Part 430,
4 Subpart B, Appendix Y, entitled “Uniform Test Method for Measuring the
5 Energy Consumption of Battery Chargers,” as in effect on January 11, 2017.

6 (22) Water coolers included in the scope of the “ENERGY STAR
7 Program Requirements Product Specification for Water Coolers,” Version 2.0,
8 shall have “on mode with no water draw” energy consumption less than or
9 equal to the following values, measured in accordance with the test
10 requirements of that specification:

11 (A) 0.16 kilowatt-hours (kWh) per day for cold-only units and cook
12 and cold units;

13 (B) 0.87 kWh per day for storage type hot and cold units; and

14 (C) 0.18 kWh per day for on-demand hot and cold units.

15 (b) When a minimum efficiency standard as described in subsection (a) of
16 this section sets forth requirements that change over time, the rules shall
17 provide for compliance with the changed requirements as they come into
18 effect.

19 **(c) When a subdivision within subdivisions (a)(8) through (a)(22) of**
20 **this section requires compliance with an efficiency standard or testing**
21 **protocol contained in a document issued by an agency of the United**

1 States, another state, or a nationally or internationally recognized
2 organization, the rules of the Commissioner may incorporate the specified
3 standard or protocol by reference pursuant to 3 V.S.A. § 838 rather than
4 setting forth its language.

5 (d) With respect to computers and computer monitors subject to
6 subdivision (a)(13) of this section, the Commissioner shall have authority
7 to adopt official interpretations of the applicable efficiency standards
8 published by the staff of the California Energy Commission (CEC). The
9 rules shall state the process for such adoption and the manner in which
10 the Commissioner will make the adopted interpretations publicly
11 available.

12 Sec. 5. 9 V.S.A. § 2796 is amended to read:

13 § 2796. IMPLEMENTATION

14 * * *

15 ~~(d) One year after the date upon which the sale or offering for sale of~~
16 ~~certain products becomes subject to the requirements of subsection (a) or (b) of~~
17 ~~this section, no new products may be installed for compensation in the State~~
18 ~~unless the efficiency of a new product meets or exceeds the efficiency~~
19 ~~standards set forth in the rules adopted pursuant to section 2795 of this title.~~

20 (1) On or after July 1, 2019, no new luminaire that is designed and
21 marketed to operate with T12 fluorescent lamps may be sold or offered

1 **for sale in the State. This prohibition shall not apply to a luminaire that**
2 **the seller purchased on or before June 30, 2019.**

3 (2) On or after July 1, 2020, no new air compressor, commercial
4 dishwasher, commercial fryer, commercial hot-food holding cabinet,
5 commercial steam cooker, computer or computer monitor, ~~faucet~~, high CRI
6 fluorescent lamp, ~~portable air conditioner~~, portable electric spa, residential
7 ventilating fan, ~~showerhead~~, spray sprinkler body, ~~telephone~~, uninterruptible
8 power supply, ~~urinal, water closet~~, or water cooler may be sold or offered for
9 sale, lease, or rent in the State unless the efficiency of the new product meets
10 or exceeds the efficiency standards set forth in the rules adopted pursuant to
11 section 2795 of this title.

12 **(3) On or after July 1, 2021, no new faucet, showerhead, or urinal**
13 **may be sold or offered for sale, lease, or rent in the State unless the**
14 **efficiency of the new product meets or exceeds the efficiency standards set**
15 **forth in the rules adopted pursuant to section 2795 of this title.**

16 **(4) This subdivision governs the date after which no new portable**
17 **air conditioner may be sold or offered for sale, lease, or rent in the State**
18 **unless the efficiency of the new product meets or exceeds the efficiency**
19 **standards set forth in the rules adopted pursuant to section 2795 of this**
20 **title (the compliance date).**

1 (A) The federal energy or water conservation standard for the product
2 under 42 U.S.C. chapter 77 is withdrawn, repealed, or otherwise voided.

3 However, this subdivision (A) shall not apply to any federal energy or water
4 conservation standard set aside by a court of competent jurisdiction upon the
5 petition of a person who will be adversely affected, as provided in 42 U.S.C.
6 § 6306(b).

7 (B) A waiver of federal preemption is issued pursuant to 42 U.S.C.
8 § 6297.

9 (2) The federal standard for general service lamps shall be considered to
10 be withdrawn, repealed, or otherwise voided within the meaning of this
11 subsection if it does not come into effect on January 20, 2020 pursuant to the
12 actions published at 82 Fed. Reg. 7276 and 7333 (January 19, 2017).

13 (3) When a standard adopted pursuant to this chapter becomes
14 enforceable under this subsection, a person shall not sell or offer for sale in the
15 State a new product subject to the standard unless the efficiency or water
16 conservation of the new product meets or exceeds the requirements set forth in
17 the standard.

18 Sec. 6. RULEMAKING

19 On or before May 1, 2019, the Commissioner of Public Service shall file
20 with the Secretary of State proposed rules to implement Secs. 2 through 4 of
21 this act.

1 **Sec. 6a. 26 V.S.A. § 2173 is amended to read:**

2 **§ 2173. RULES ADOPTED BY THE BOARD**

3 (a) ~~The plumber's examining board~~ **Plumber's Examining Board** may,
4 pursuant to the ~~provisions of 3 V.S.A. chapter 25 (Administrative~~
5 ~~Procedure Act)~~ **Administrative Procedure Act**, make and revise such
6 plumbing rules as necessary for protection of the public health, except
7 that no rule of the ~~board~~ **Board** may require the installation or
8 maintenance of a water heater at a minimum temperature. To the extent
9 that a rule of the ~~board~~ **Board** conflicts with this subsection, that rule shall
10 be invalid and unenforceable. The rules shall be in effect in every city,
11 village, and town having a public water system or public sewerage system
12 and apply to all premises connected to the systems and all public buildings
13 containing plumbing or water treatment and heating specialties whether
14 they are connected to a public water or sewerage system. The local board
15 of health and the ~~commissioner of public safety~~ **Commissioner of Public**
16 **Safety** shall each have authority to enforce these rules. The rules shall be
17 limited to minimum performance standards reasonably necessary for the
18 protection of the public against accepted health hazards **and shall be**
19 **consistent with any minimum efficiency standards for plumbing fixtures**
20 **adopted under 9 V.S.A. chapter 74.** The ~~board~~ **Board** may, if it finds it
21 practicable to do so, adopt the provisions of a nationally recognized

1 **plumbing code and as needed shall adopt a Vermont-specific amendment**
2 **to the adopted code to ensure that it is consistent with any minimum**
3 **efficiency standards for plumbing fixtures adopted under 9 V.S.A.**
4 **chapter 74.**

5 * * *

6 * * * Energy Planning * * *

7 Sec. 7. 30 V.S.A. § 202b is amended to read:

8 § 202b. STATE COMPREHENSIVE ENERGY PLAN

9 (a) The Department of Public Service, in conjunction with other State
10 agencies designated by the Governor, shall prepare a State Comprehensive
11 Energy Plan covering at least a 20-year period. The Plan shall seek to
12 implement the State energy policy set forth in section 202a of this title and
13 shall be consistent with the relevant goals of 24 V.S.A. § 4302. The Plan shall
14 include:

15 (1) a comprehensive analysis and projections regarding the use, cost,
16 supply, and environmental effects of all forms of energy resources used within
17 Vermont;

18 (2) recommendations for State implementation actions, regulation,
19 legislation, and other public and private action to carry out the Comprehensive
20 Energy Plan, including recommendations for State agency energy plans under
21 3 V.S.A. § 2291 and transportation planning under Title 19; and

1 renewable energy consumed. For the electricity sector, the report shall also
2 state the amounts in megawatt hours (MWH) and the Vermont and New
3 England summer and winter peak electric demand, including the hour and day
4 of peak demand.

5 (B) Projections of the energy reductions and shift to renewable
6 energy expected to occur under existing policies, technologies, and markets.
7 The most recent available data shall be used to inform these projections and
8 shall be provided as a supplement to the data described in subdivision (A) of
9 this subdivision (3).

10 (C) Recommendations of policies to further the renewable energy
11 goals set forth in statute and the Plan, along with an evaluation of the relative
12 cost-effectiveness of different policy approaches.

13 (4) The report shall include a supplemental analysis setting forth how
14 progress toward the goals of the Plan is supported by complementary work in
15 avoiding or reducing energy consumption through efficiency and demand
16 reduction. In this subdivision (4), “demand reduction” includes dispatchable
17 measures, such as controlling appliances that consume energy, and
18 nondispatchable measures, such as weatherization.

19 (5) The report shall include recommendations on methods to enhance
20 the process for planning, tracking, and reporting progress toward meeting
21 statutory energy goals and the goals of the Plan. Such recommendations may

1 include the consolidation of one or more periodic reports filed by the
2 Department or other State agencies relating to renewable energy, with
3 proposals for amending the statutes relevant to those reports.

4 (6) The report shall include a summary of the following information for
5 each sector:

6 (A) major changes in relevant markets, technologies, and costs;

7 (B) average Vermont prices compared to the other New England
8 states, based on the most recent available data; and

9 (C) significant Vermont and federal incentive programs that are
10 relevant to one or more of the sectors.

11 Sec. 8. 30 V.S.A. § 218c is amended to read:

12 § 218c. LEAST-COST INTEGRATED PLANNING

13 * * *

14 (b) Each regulated electric or gas company shall prepare and implement a
15 least-cost integrated plan for the provision of energy services to its Vermont
16 customers. At least every third year on a schedule directed by the Public
17 Utility Commission, each such company shall submit a proposed plan to the
18 Department of Public Service and the Public Utility Commission. The
19 Commission, after notice and opportunity for hearing, may approve a
20 company's least-cost integrated plan if it determines that the company's plan
21 complies with the requirements of subdivision (a)(1) of this section and of

1 sections 8004 and 8005 of this title and is consistent with the goals of the
2 Comprehensive Energy Plan issued under section 202b of this title.

3 * * *

4 Sec. 9. 19 V.S.A. § 10b is amended to read:

5 § 10b. STATEMENT OF POLICY; GENERAL

6 (a) The Agency shall be the responsible agency of the State for the
7 development of transportation policy. It shall develop a mission statement to
8 reflect:

9 (1) that State transportation policy shall be to encompass, coordinate,
10 and integrate all modes of transportation and to consider “complete streets”
11 principles, which are principles of safety and accommodation of all
12 transportation system users, regardless of age, ability, or modal preference; and

13 (2) the need for transportation projects that will improve the State’s
14 economic infrastructure, as well as the use of resources in efficient,
15 coordinated, integrated, cost-effective, and environmentally sound ways, and
16 that will be consistent with the recommendations of the Comprehensive
17 Energy Plan (CEP) issued under 30 V.S.A. § 202b.

18 (b) The Agency shall coordinate planning and education efforts with those
19 of the Vermont Climate Change Oversight Committee and those of local and
20 regional planning entities:

1 transportation policy developed under section 10b of this title, other policies
2 approved by the ~~legislature, agency~~ General Assembly, Agency goals, mission,
3 and objectives, and demographic and travel forecasts, design standards,
4 performance criteria, and funding availability. The long-range systems plan
5 shall be developed with participation of the public; and local; and regional
6 governmental entities; and pursuant to the planning goals and processes set
7 forth in 1988 Acts and Resolves No. 200 ~~of the Acts of the 1987 Adj. Sess.~~
8 ~~(1988)~~. The plan shall be consistent with the Comprehensive Energy Plan
9 (CEP) issued under 30 V.S.A. § 202b.

10 * * *

11 (c) ~~Transportation program~~ Program. ~~The transportation program~~
12 Transportation Program shall be developed in a fiscally responsible manner to
13 accomplish the following objectives:

14 (1) ~~Managing~~ managing, maintaining, and improving the ~~state's~~ State's
15 existing transportation infrastructure to provide capacity, safety, and flexibility
16 in the most cost-effective and efficient manner;:

17 (2) ~~Developing~~ developing an integrated transportation system that
18 provides Vermonters with transportation choices;:

19 (3) ~~Strengthening~~ strengthening the economy, protecting the quality of
20 the natural environment, and improving Vermonters' quality of life; and

21 (4) achieving the recommendations of the CEP.

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Sec. 11. 3 V.S.A. § 2291 is amended to read:

§ 2291. STATE AGENCY ENERGY PLAN

* * *

(c) The Secretary of Administration with the cooperation of the Commissioners of Public Service and of Buildings and General Services shall develop and oversee the implementation of a State Agency Energy Plan for State government. The Plan shall be adopted by June 30, 2005, modified as necessary, and readopted by the Secretary on or before January 15, 2010 and each sixth year subsequent to 2010. The Plan shall be consistent with the Comprehensive Energy Plan (CEP) issued under 30 V.S.A. § 202b. The Plan shall accomplish the following objectives and requirements:

* * *

Sec. 11a. REPORTS; ELECTRIC GENERATION CONSTRAINTS

(a) This section requires two written submissions on matters relating to electric generation, one from the Public Utility Commission (PUC or Commission) and one from the Department of Public Service (DPS or Department). Each submission shall be made on or before January 15, 2019 to the House Committee on Energy and Technology and the Senate Committees on Finance and on Natural Resources and Energy.

1 (b) The Commission has pending before it several contested cases raising
2 issues pertaining to electric generation and the area of the Sheffield-Highgate
3 Export Interface (SHEI) and a noncontested case proceeding related to the
4 Standard Offer Program under 30 V.S.A. § 8005a in which the Commission
5 may examine issues related to ensuring that standard offer projects are
6 proposed in areas that do not result in additional costs to the electric
7 transmission or distribution system or that provide the greatest benefit to the
8 system. The Commission’s written submission under this section shall include
9 all of the following:

10 (1) For each of those contested cases, a summary of its findings and
11 conclusions on the merits of the issue or issues in the case related to the SHEI
12 area. This subdivision (1) does not require the Commission to provide a
13 summary for a contested case in which it has not issued a final order on the
14 merits.

15 (2) For the proceeding related to the Standard Offer Program, a
16 summary of its decisions to date of the submission on issues related to siting
17 standard offer projects in areas that do not result in additional costs to the
18 electric transmission or distribution system or that provide the greatest benefit
19 to the system.

20 (3) As attachments, a copy of each decision summarized.

1 **(c) The Department shall submit a written report to assist the General**
2 **Assembly, renewable energy developers, and electric utilities to plan for**
3 **the deployment of renewable electric generation in a manner that is**
4 **consistent with the goals, requirements, and programs related to**
5 **renewable energy set forth or established in 30 V.S.A. chapter 89, the**
6 **statutory goals for greenhouse gas reduction at 10 V.S.A. § 578, and the**
7 **goals and recommendations of the 2016 Comprehensive Energy Plan.**

8 **(1) On each of the following, the report shall include analysis and**
9 **recommendations that are consistent with those goals, requirements, and**
10 **programs:**

11 **(A) How to manage demands on the State’s electric transmission**
12 **and distribution system that relate to or affect the deployment of**
13 **renewable electric generation. The Department shall identify and review**
14 **areas of the State, such as the SHEI area, in which generation that is**
15 **interconnected to the electric transmission and distribution system faces**
16 **constraints due to system capacity and conditions, including the**
17 **relationship of interconnected generation to existing load;**

18 **(B) How to encourage the deployment of all types of renewable**
19 **electric generation while minimizing curtailment of such generation.**

20 **(C) How to facilitate meeting the distributed renewable**
21 **generation and energy transformation requirements of the Renewable**

1 **Energy Standard at 30 V.S.A. §§ 8004–8005 in light of constraints**
2 **identified under subdivision (A) of this subdivision (1).**

3 **(D) The role of energy storage in the deployment of renewable**
4 **electric generation.**

5 **(E) Recommended methods to guide where renewable electric**
6 **generation should be located in the State;**

7 **(F) Recommended methods to guide the location in the State of**
8 **end users that consume significant amounts of electric energy.**

9 **(G) Other relevant issues as determined by the Department.**

10 (2) Prior to submitting this report, the Department shall provide an
11 opportunity for written submission of relevant comments and information by
12 the public and shall conduct one or more meetings at which the public may
13 provide comments and information. The Department shall provide prior notice
14 of the opportunity to submit comments and information and of each meeting to
15 each Vermont electric transmission and distribution utility, Renewable Energy
16 Vermont, each holder of a certificate of public good for an electric generation
17 facility within the SHEI area with a capacity greater than 500 kilowatts, each
18 entity appointed to deliver energy efficiency programs and measures under 30
19 V.S.A. § 209(d), and any other person who requests such notice or whom the
20 Department may determine to notify.

1 (3) With respect to the recommendations in the report, the Department
2 shall identify those recommendations that require passage of enabling
3 legislation and those recommendations that may be carried out under existing
4 law. The report shall propose a timetable for implementation of the
5 recommendations that may be carried out under existing law.

6 Sec. 11b. RENEWABLE ENERGY STANDARD (RES) RULEMAKING

7 2015 Acts and Resolves No. 56, Sec. 8(d) is amended to read:

8 (d) On or before July 1, ~~2018~~ 2019, the ~~Board~~ Public Utility Commission
9 shall commence rulemaking to implement Secs. 2, 3, and 7 of this act. The
10 ~~Board~~ Commission shall finally adopt these rules within eight months of
11 commencing rulemaking, unless this period is extended by the Legislative
12 Committee on Administrative Rules under 3 V.S.A. § 843.

13 * * * Motor Vehicle Purchase and Use Tax * * *

14 Sec. 12. 32 V.S.A. § 8903 is amended to read:

15 § 8903. TAX IMPOSED

16 (a)(1) There is hereby imposed upon the purchase in Vermont of a motor
17 vehicle by a resident a tax at the time of such purchase, payable as hereinafter
18 provided. ~~The~~ Except as otherwise provided in subdivision (3) of this
19 subsection, the amount of the tax shall be six percent of the taxable cost of a:

20 (A) pleasure car as defined in 23 V.S.A. § 4;

21 (B) motorcycle as defined in 23 V.S.A. § 4;

1 (C) motor home as defined in subdivision 8902(11) of this title; or

2 (D) vehicle weighing up to 10,099 pounds, registered pursuant to
3 23 V.S.A. § 367, other than a farm truck.

4 (2) For any other motor vehicle, it shall be six percent of the taxable cost
5 of the motor vehicle or \$2,075.00 for each motor vehicle, whichever is smaller,
6 except that pleasure cars that are purchased, leased, or otherwise acquired for
7 use in short-term rentals shall be subject to taxation under subsection (d) of this
8 section.

9 (3)(A) For an all-electric vehicle, the tax shall be six percent of the
10 amount that the taxable cost exceeds \$30,000.00.

11 (B) For a plug-in hybrid electric vehicle, the tax shall be six percent
12 of the amount that the taxable cost exceeds \$15,000.00.

13 (b)(1) ~~There~~ Except as otherwise provided in subdivision (3) of this
14 subsection, there is hereby imposed upon the use within this State a tax of six
15 percent of the taxable cost of a:

16 (A) pleasure car as defined in 23 V.S.A. § 4;

17 (B) motorcycle as defined in 23 V.S.A. § 4;

18 (C) motor home as defined in subdivision 8902(11) of this title; or

19 (D) vehicle weighing up to 10,099 pounds, registered pursuant to
20 23 V.S.A. § 367, other than a farm truck.

1 (1) hybrid plug-in: \$50.00 for an annual registration and \$100.00 for a
2 biennial registration.

3 (2) all-electric: \$100.00 for an annual registration and \$200.00 for a
4 biennial registration.

5 (c) Monies collected pursuant to subsection (b) of this section shall be
6 allocated as follows, with monies allocated to the Clean Energy Development
7 Fund (CEDF) established in 30 V.S.A. § 8015 to be reserved to support
8 electric vehicles and associated charging stations as directed in 30 V.S.A.
9 § 8015(c):

10 (1) for monies collected in fiscal year 2019, 80 percent to the CEDF and
11 20 percent to the Transportation Fund;

12 (2) for monies collected in fiscal year 2020, 70 percent to the CEDF and
13 30 percent to the Transportation Fund; and

14 (3) for monies collected in fiscal year 2021, 60 percent to the CEDF and
15 40 percent to the Transportation Fund.

16 Sec. 14. REPEAL

17 23 V.S.A. § 361(b) and (c) (supplemental registration fee for plug-in
18 electric vehicles; allocation) are repealed.

19 Sec. 15. 30 V.S.A. § 8015 is amended to read:

20 § 8015. VERMONT CLEAN ENERGY DEVELOPMENT FUND

21 (a) Creation of Fund.

1 (c) Purposes of Fund. The purposes of the Fund shall be to promote the
2 development and deployment of cost-effective and environmentally sustainable
3 electric power and thermal energy or geothermal resources for the long-term
4 benefit of Vermont consumers, primarily with respect to renewable energy
5 resources, and the use of combined heat and power technologies. The Fund
6 also may be used to support natural gas and electric vehicles in accordance
7 with subdivisions (d)(1)(K) and (L) of this section, respectively and, in the
8 case of funds from supplemental electric vehicle registration fees described in
9 subdivision (a)(1)(B) of this section, these funds shall be used exclusively to
10 support electric vehicles and associated charging stations in accordance with
11 subdivision (d)(1)(L). The General Assembly expects and intends that the
12 Public Utility Commission, the Department of Public Service, and the State's
13 power and efficiency utilities will actively implement the authority granted in
14 this title to acquire all reasonably available cost-effective energy efficiency
15 resources for the benefit of Vermont ratepayers and the power system.

16 * * *

17 Sec. 16. 30 V.S.A. § 8015 is amended to read:

18 § 8015. VERMONT CLEAN ENERGY DEVELOPMENT FUND

19 (a) Creation of Fund.

20 (1) There is established the Vermont Clean Energy Development Fund
21 to consist of each of the following:

1 (A) the proceeds due the State under the terms of the memorandum
2 of understanding between the Department of Public Service and Entergy
3 Nuclear VY and Entergy Nuclear Operations, Inc. that was entered under
4 Public Service Board docket 6812; together with the proceeds due the State
5 under the terms of any subsequent memoranda of understanding entered before
6 July 1, 2005 between the Department of Public Service and Entergy Nuclear
7 VY and Entergy Nuclear Operations, Inc.;

8 (B) ~~supplemental electric vehicle registration fees as specified in~~
9 ~~23 V.S.A. § 361(e); and [Repealed.]~~

10 (C) any other monies that may be appropriated to or deposited into
11 the Fund.

12 (2) Balances in the Fund shall be expended solely for the purposes set
13 forth in this subchapter and shall not be used for the general obligations of
14 government. All balances in the Fund at the end of any fiscal year shall be
15 carried forward and remain part of the Fund. Interest earned by the Fund shall
16 be deposited in the Fund. This Fund is established in the State Treasury
17 pursuant to 32 V.S.A. chapter 7, subchapter 5.

18 * * *

19 (c) Purposes of Fund. The purposes of the Fund shall be to promote the
20 development and deployment of cost-effective and environmentally sustainable
21 electric power and thermal energy or geothermal resources for the long-term

1 benefit of Vermont consumers, primarily with respect to renewable energy
2 resources, and the use of combined heat and power technologies. The Fund
3 also may be used to support natural gas and electric vehicles in accordance
4 with subdivisions (d)(1)(K) and (L) of this section, respectively ~~and, in the~~
5 ~~ease of funds from supplemental electric vehicle registration fees described in~~
6 ~~subdivision (a)(1)(B) of this section, these funds shall be used exclusively to~~
7 ~~support electric vehicles and associated charging stations in accordance with~~
8 ~~subdivision (d)(1)(L).~~ The General Assembly expects and intends that the
9 Public Utility Commission, the Department of Public Service, and the State's
10 power and efficiency utilities will actively implement the authority granted in
11 this title to acquire all reasonably available cost-effective energy efficiency
12 resources for the benefit of Vermont ratepayers and the power system.

13 * * *

14 Sec. 17. 19 V.S.A. § 11 is amended to read:

15 § 11. TRANSPORTATION FUND

16 ~~The~~ Except as otherwise specifically provided by law, the Transportation
17 Fund shall comprise the following:

18 (1) all taxes, penalties, and fees received by the Commissioner of
19 Motor Vehicles except those relating to motorboats imposed under 23 V.S.A.
20 chapter 29, which shall be expended pursuant to 23 V.S.A. § 3319;

21 * * *

1 Sec. 18. REPORT AND RECOMMENDATIONS; ELECTRIC VEHICLE

2 CONTRIBUTION TO TRANSPORTATION INFRASTRUCTURE

3 (a) On or before December 15, 2020, the Secretary of Transportation
4 (Secretary) and the Public Utility Commission (PUC) jointly shall file a report
5 that analyzes multiple methods for ensuring that plug-in electric vehicles (EVs)
6 owned or used in Vermont contribute, commensurately in comparison to other
7 types of vehicles, for their use of the State's transportation infrastructure. The
8 report shall include their recommendation on which of those methods the State
9 of Vermont should adopt.

10 (b) Prior to submitting this report, the Secretary and PUC shall provide an
11 opportunity for written submission of relevant comments and information by
12 the public and shall conduct one or more public meetings at which the public
13 may provide such comments and information.

14 (c) Methods analyzed in the report shall include continuation or
15 modification of the partial exemption from the purchase and use tax authorized
16 in Sec. 12 of this act or the supplemental registration fee authorized in Sec. 13
17 of this act, assessing a fee based on vehicle mileage, assessing a fee per
18 kilowatt hour delivered to an EV in Vermont, and other methods that the
19 Secretary and the PUC consider to merit exploration.

20 (d) In the report, the Secretary and the PUC shall consider whether the
21 revenues generated from EVs should be allocated between the Transportation

1 Fund and the Clean Energy Development Fund and, if so, shall provide a
2 recommended allocation.

3 (e) The Secretary and PUC shall submit the report to the House
4 Committees on Energy and Technology and on Transportation and to the
5 Senate Committees on Finance, on Natural Resources and Energy, and on
6 Transportation.

7 * * * Authority to Reserve Parking Spaces for Plug-in
8 Electric Vehicles * * *

9 Sec. 19. 23 V.S.A. § 1104 is amended to read:

10 § 1104. STOPPING PROHIBITED

11 (a) Except when necessary to avoid conflict with other traffic, or in
12 compliance with law or the directions of an enforcement officer or official
13 traffic-control device, no person may:

14 * * *

15 (3) Park a vehicle, whether occupied or not, except temporarily for the
16 purpose of and while actually engaged in loading or unloading merchandise or
17 a passenger:

18 (A) within 50 feet of the nearest rail of a railroad crossing;

19 (B) at any place where official signs prohibit parking;

20 (C) at any place where official signs restrict parking to specific sizes
21 or types of vehicles and the vehicle violates the restrictions.

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Sec. 20. 23 V.S.A. § 1106 is amended to read:

§ 1106. LIMITATIONS ON USE OF STATE HIGHWAY FACILITIES

(a) As used in this section, “State highway facility” means a State highway rest area, picnic ground, parking area, or park-and-ride facility.

(b) No person shall enter or remain on any State highway facility for the purpose of overnight camping unless the particular facility has been designated for that purpose by the Traffic Committee.

(c)(1) On the basis of an engineering and traffic investigation or findings as to adverse effects on the quiet enjoyment and property values of people living adjacent to a State highway facility, the Traffic Committee may designate the size and types of vehicles allowed to park in a State highway facility or in particular areas of a State highway facility.

(2) In addition, the Secretary may prescribe that only plug-in electric vehicles are permitted to park in designated areas of a State highway facility.

(d) Notice of the prohibitions or restrictions under this section shall be posted at the affected facilities by regulatory signs conforming to the Manual on Uniform Traffic Control Devices.

1 Sec. 21. 23 V.S.A. § 1008a is amended to read:

2 § 1008a. REGULATION OF MOTOR VEHICLES AT STATE AIRPORTS

3 (a)(1) The Secretary may adopt rules governing the operation, use, and
4 parking of motor vehicles on the grounds of State airports, including the
5 access roads.

6 (2) In addition, the Secretary may prescribe that only plug-in electric
7 vehicles are permitted to park in designated areas on such grounds.

8 (b) Signs indicating the ~~special regulations~~ rules or restrictions shall be
9 conspicuously posted in and near all areas affected.

10 * * * Charging Stations; Public Utility Commission Jurisdiction * * *

11 Sec. 22. 30 V.S.A. § 201 is amended to read:

12 § 201. DEFINITIONS

13 (a) As used in this chapter, the word “company” or “companies” means and
14 includes individuals, partnerships, associations, corporations, and
15 municipalities owning or conducting any public service business or property
16 used in connection therewith and covered by the provisions of this chapter.

17 (1) The term “company” or “companies” also includes electric
18 cooperatives organized and operating under chapter 81 of this title, the
19 Vermont Public Power Supply Authority to the extent not inconsistent with
20 chapter 84 of this title, and the Vermont Hydroelectric Power Authority to the
21 extent not inconsistent with chapter 90 of this title.

1 (1) The schedule will provide benefits to the company’s transmission or
2 distribution system, or both, such as increasing the efficient use of the system
3 through encouraging nighttime charging of EVs.

4 (2) The schedule will provide benefits to the ratepayers of the company
5 that outweigh any costs to those ratepayers.

6 (3) Implementation of the schedule will result in avoided environmental
7 and public health costs of greenhouse gas emissions, and the amount of those
8 avoided costs exceeds the costs caused by the schedule and its implementation.

9 Sec. 24. INVESTIGATION; ELECTRIC VEHICLE RATE SCHEDULES

10 (a) On or before July 1, 2019, the Public Utility Commission shall open
11 and complete an investigation and issue a final order concerning the
12 establishment of rate schedules under which a customer may charge a plug-in
13 electric vehicle on the customer’s premises (on-premise charging) at a rate that
14 is reduced from what the customer otherwise would pay the company for
15 consuming electric energy.

16 (1) Terms used in this section that are defined in 30 V.S.A. § 8002 shall
17 have the same meaning as in that statute.

18 (2) Parties to the investigation shall include the Department of Public
19 Service and the Vermont retail electricity providers.

20 (b) Issues addressed in the Commission’s final order in this investigation
21 shall include:

1 (1) The potential existence and amount of economic benefit to the
2 Vermont transmission and distribution system that may be obtained from
3 encouraging on-premise charging.

4 (2) The environmental and public health costs that may be avoided
5 through encouraging on-premise charging, including the quantification of
6 those costs.

7 (3) The parameters of a rate schedule that would be needed to encourage
8 on-premise charging in a manner that captures the benefits and avoids the costs
9 described in subdivisions (1) and (2) of this subsection, respectively, and
10 otherwise avoids or reduces the imposition of costs on ratepayers who do not
11 engage in such charging.

12 (c) If, after consideration of the issues identified in subsection (b) of this
13 section, the Commission finds that reduced rate schedules for on-premise
14 charging should be instituted, the Commission’s final order shall require each
15 Vermont retail electricity provider to submit, by a date certain, a proposed rate
16 schedule that complies with 30 V.S.A. § 218(h).

17 * * * Agency of Agriculture, Food and Markets; Weights and Measures;

18 Electric Vehicle Charging Stations; Inspection and Enforcement * * *

19 Sec. 25. 9 V.S.A. § 2651(14) is amended to read:

20 (14) “Weights and measures” means all weights and measures of every
21 kind, instruments and devices for weighing and measuring, and any appliances

1 and accessories associated with any or all such instruments and devices,
2 including meters for the measurement of electricity offered for sale at an
3 electric vehicle charging station, but not including meters for the measurement
4 of electricity, natural or manufactured gas (~~natural or manufactured~~), or water
5 when they are operated in a public utility system. Such electricity, gas, and
6 water meters are specifically excluded from the purview of this chapter, and
7 this chapter shall not apply to such meters or to any appliances or accessories
8 associated therewith.

9 * * * Charging Stations; Exclusion from Net Metering * * *

10 Sec. 26. 30 V.S.A. § 8002(16) is amended to read:

11 (16) “Net metering system” means a plant for generation of electricity
12 that:

13 (A) is of no more than 500 kW capacity;

14 (B) operates in parallel with facilities of the electric distribution
15 system;

16 (C) is intended primarily to offset the customer’s own electricity
17 requirements and does not supply electricity to a charging station for the retail
18 sale of electricity to plug-in electric vehicles; and

19 (D)(i) employs a renewable energy source; or

20 (ii) is a qualified micro-combined heat and power system of
21 20 kW or fewer that meets the definition of combined heat and power in

1 subsection 8015(b) of this title and uses any fuel source that meets air quality
2 standards.

3 Sec. 27. 30 V.S.A. § 8010(c)(2)(F)(iii) is added to read:

4 (iii) A bill credit for kWh generated by a net metering system shall
5 not be assigned to a customer account that serves premises containing a
6 charging station for the retail sale of electricity to plug-in electric vehicles.

7 * * * Effective Dates * * *

8 Sec. 28. EFFECTIVE DATES

9 (a) This section and Secs. 11a (reports; electric generation constraints), 11b
10 (RES rulemaking), and 24 (investigation; electric vehicle rate schedules) shall
11 take effect on passage.

12 (b) Secs. 14 (repeal of 23 V.S.A. § 361(b) and (c)) and 16 (prospective
13 amendment of 30 V.S.A. § 8015) shall take effect on July 1, 2021.

14 (c) All other sections shall take effect on July 1, 2018.

15 and that after passage the title of the bill be amended to read: “An act relating
16 to appliance efficiency, energy planning, and electric vehicles”

17

18

19 (Committee vote: _____)

20

21

Senator _____

1

FOR THE COMMITTEE

DRAFT