

1 **DRAFT BASED ON DEPT. OF PUBLIC SERVICE PROPOSAL**

2 Introduced by

3 Referred to Committee on

4 Date:

5 Subject: Energy; public service; renewable electric generation; self-generation;
6 net metering

7 Statement of purpose of bill as introduced: This bill proposes to make two sets
8 of changes to the statutes governing net metering systems.

9 First, for effect in 2014, the bill proposes amendments regarding the
10 cumulative output capacity of all net metering systems, the capacity of
11 individual solar net metering systems, the required additional incentive for
12 those systems, the ownership of renewable energy credits associated with net
13 metering systems, the compliance of small solar systems with local setbacks,
14 the creation of a pilot project under which an electric cooperative would install
15 net metering systems, and the establishment of an exemption for an electric
16 company whose power supply portfolio is 90 percent renewable.

17 Second, for effect in 2017, the bill would repeal the existing net metering
18 statute and replace it with a statute that provides policy direction to the Public
19 Service Board for a revised net metering program that would be governed by
20 Board rules. The Board would develop these rules through a process to occur
21 before 2017. This process would include a report by the Department of Public

1 Service to the Board followed by workshop and rulemaking proceedings on a
2 revised program and a report by the Board to the General Assembly in 2016.

3 An act relating to self-generation and net metering

4 It is hereby enacted by the General Assembly of the State of Vermont:

5 * * * Net Metering Amendments for 2014 * * *

6 Sec. 1. 30 V.S.A. § 219a is amended to read:

7 § 219a. SELF-GENERATION AND NET METERING

8 (a) As used in this section:

9 (1) “Capacity” means the rated electrical nameplate for a net metering
10 system, except that for a solar net metering system, the term shall:

11 (A) mean the rated electrical nameplate multiplied by 0.95, if the
12 result of the multiplication is not more than 15 kW; and

13 (B) have the same meaning as set forth for a solar energy plant under
14 “plant capacity” in section 8002 of this title, for those solar net metering
15 systems not subject to subdivision (1)(A) of this subsection.

16 (2) “Customer” means a retail electric consumer who uses a net
17 metering system.

18 (3) “Environmental attributes” shall have the same meaning as under
19 section 8002 of this title.

1 (4) “Facility” means a structure or piece of equipment and associated
2 machinery and fixtures that generates electricity. A group of structures or
3 pieces of equipment shall be considered one facility if it uses the same fuel
4 source and infrastructure and is located in close proximity. Common
5 ownership shall be relevant but not sufficient to determine that such a group
6 constitutes a facility.

7 ~~(2)~~(5) “Net metering” means measuring the difference between the
8 electricity supplied to a customer and the electricity fed back by a net metering
9 system during the customer’s billing period:

10 (A) using a single, nondemand meter or such other meter that would
11 otherwise be applicable to the customer’s usage but for the use of net
12 metering; or

13 (B) on ~~farm~~ or group systems, using multiple meters as specified in
14 this chapter. The calculation will be made by converting all meters to a
15 nondemand, nontime-of-day meter, and equalizing them to the tariffed
16 kilowatt-hour rate.

17 ~~(3)~~(6) “Net metering system” means a facility for generation of
18 electricity that:

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

20 (B) operates in parallel with facilities of the electric
21 distribution system;

1 (C) is intended primarily to offset the customer’s own electricity
2 requirements;

3 (D) is located on the customer’s premises or, in the case of a group
4 net metering system, on the premises of a customer who is a member of the
5 group; and

6 (E)(i) employs a renewable energy source as defined in subdivision
7 8002(17) of this title; or

8 (ii) is a qualified micro-combined heat and power system of
9 20 kW or fewer that meets the definition of combined heat and power in
10 ~~10 V.S.A. § 6523(b)~~ subsection 8015(b) of this title and may use any fuel
11 source that meets air quality standards.

12 ~~(4) “Facility” means a structure or piece of equipment and associated~~
13 ~~machinery and fixtures that generates electricity. A group of structures or~~
14 ~~pieces of equipment shall be considered one facility if it uses the same fuel~~
15 ~~source and infrastructure and is located in close proximity. Common~~
16 ~~ownership shall be relevant but not sufficient to determine that such a group~~
17 ~~constitutes a facility.~~

18 ~~(5)(7)~~ “kW” means kilowatt or kilowatts (AC).

19 ~~(6)(8)~~ “kWh” means kW hour or hours.

20 ~~(7)(9)~~ “MW” means megawatt or megawatts (AC).

1 (10) “Tradeable renewable energy credits” shall have the same meaning
2 as under section 8002 of this title.

3 (b) A customer shall pay the same rates, fees, or other payments and be
4 subject to the same conditions and requirements as all other purchasers from
5 the electric company in the same rate-class, except as provided for in this
6 section, and except for appropriate and necessary conditions approved by the
7 Board for the safety and reliability of the electric distribution system.

8 (c) The Board shall establish by rule ~~or order~~ standards and procedures
9 governing application for, and issuance or revocation of a certificate of public
10 good for net metering systems under the provisions of section 248 of this title.
11 A net metering system shall be deemed to promote the public good of the State
12 if it is in compliance with the criteria of this section; and board rules ~~or orders~~.
13 In developing such rules ~~or orders~~, the Board:

14 (1) With respect to a solar net metering system of ~~10~~ 15 kW or less, the
15 Board shall provide that the system may be installed ten days after the
16 customer’s submission to the Board and the interconnecting electric company
17 of a completed registration form and certification of compliance with the
18 applicable interconnection requirements and the setback requirements, if any,
19 that apply to other kinds of development in the area of the facility under the
20 land use bylaws of the municipality in which the facility is located. Within that ten-
21 day period, the interconnecting electric company may deliver to the customer

1 and the Board a letter detailing any issues concerning the interconnection of
2 the system. The customer shall not commence construction of the system prior
3 to the passage of this ten-day period and, if applicable, resolution by the Board
4 of any interconnection issues raised by the electric company in accordance
5 with this subsection. If the ten-day period passes without delivery by the
6 electric company of a letter that raises interconnection issues in accordance
7 with this subsection, a certificate of public good shall be deemed issued on the
8 11th day without further proceedings, findings of fact, or conclusions of law,
9 and the customer may commence construction of the system. On request, the
10 Clerk of the Board promptly shall provide the customer with written evidence
11 of the system's approval. For the purpose of this subdivision, the following
12 shall not be included in the computation of time: Saturdays, Sundays, State
13 legal holidays under 1 V.S.A. § 371(a), and federal legal holidays under
14 5 U.S.C. § 6103(a).

15 (2) With respect to a net metering system for which a certificate of
16 public good is not deemed issued under subdivision (1) of this subsection, the
17 Board:

18 (A) may waive the requirements of section 248 of this title that are
19 not applicable to net metering systems, including criteria that are generally
20 applicable to public service companies as defined in this title;

1 (B) may modify notice and hearing requirements of this title as it
2 deems appropriate;

3 (C) shall seek to simplify the application and review process as
4 appropriate; and

5 (D) shall find that such rules are consistent with ~~state~~ State power
6 plans.

7 (3) The Board shall require that the registration or application for
8 approval of a net metering system declare whether the customer retains
9 ownership of the environmental attributes of any electricity generated by the
10 net metering system in excess of the customer's consumption during each
11 billing period or transfers ownership of those attributes to the interconnecting
12 electric company.

13 * * *

14 (e) Consistent with the other provisions of this title, electric energy
15 measurement for net metering systems using a single nondemand meter that
16 are not group systems shall be calculated in accordance with
17 subdivisions (1)-(3) of this subsection, and electric energy measurement for net
18 metering systems that use other types of meters shall be calculated in
19 accordance with subdivision (4) of this subsection.

1 (1) The electric company which serves the net metering customer shall
2 measure the net electricity produced or consumed during the customer’s billing
3 period, in accordance with normal metering practices.

4 (2) If the electricity supplied by the electric company exceeds the
5 electricity generated by the customer and fed back to the electric distribution
6 system during the billing period, the customer shall be billed for the net
7 electricity supplied by the electric company, in accordance with normal
8 metering practices.

9 (3) If electricity generated by the customer exceeds the electricity
10 supplied by the electric company, each of the following shall apply:

11 (A) The electric company shall calculate a monetary credit to the
12 customer by multiplying the excess kWh generated during the billing period by
13 the kWh rate paid by the customer for electricity supplied by the company and
14 shall apply the credit to any remaining charges on the customer’s bill for that
15 period. If the applicable rate schedule includes inclining block rates, the rate
16 used for this calculation shall be a blend of those rates determined by adding
17 together all of the revenues to the company during a recent test year from kWh
18 sold under those block rates and dividing the sum by the total kWh sold by the
19 company at those rates during that same year.

1 (B) If application to such charges does not use the entire balance of
2 the credit, the remaining balance of the credit shall appear on the customer's
3 bill for the following billing period; ~~and,~~

4 (C) Any accumulated credits shall be used within 12 months, or shall
5 revert to the electric company, without any compensation to the customer.
6 Power reverting to the electric company under this subdivision (3) shall be
7 considered SPEED resources under section 8005 of this title.

8 (4) For a net metering system serving a customer on a demand or
9 time-of-use rate schedule, the manner of measurement and the application of
10 bill credits for the electric energy produced or consumed shall be substantially
11 similar to that specified in this subsection for use with a single nondemand
12 meter. However, if such a net metering system is interconnected directly to the
13 electric company through a separate meter whose primary purpose is to
14 measure the energy generated by the system:

15 (A) The bill credits shall apply to all kWh generated by the net
16 metering system and shall be calculated as if the customer were charged the
17 kWh rate component of the interconnecting company's general residential rate
18 schedule that consists of two rate components: a service charge and a kWh
19 rate, excluding time-of-use rates and demand rates.

20 (B) If a company's general residential rate schedule includes
21 inclining block rates, the residential rate used for this calculation shall be ~~the~~

1 ~~highest of those block rates~~ a blended rate calculated in the same manner as
2 under subdivision (3)(A) of this subsection.

3 * * *

4 (h)(1) An electric company:

5 (A) Shall make net metering available to any customer using a net
6 metering system or group net metering system on a first-come, first-served
7 basis until the cumulative output capacity of net metering systems equals ~~4.0~~
8 15 percent of the distribution company's peak demand during 1996; or the
9 peak demand during the most recent full calendar year, whichever is greater.

10 The Board may raise the ~~4.0~~ 15 percent cap. In determining whether to raise
11 the cap, the Board shall consider the following:

12 (i) the costs and benefits of net metering systems already
13 connected to the system; and

14 (ii) the potential costs and benefits of exceeding the cap, including
15 potential short- and long-term impacts on rates, distribution system costs and
16 benefits, reliability, and diversification costs and benefits;

17 * * *

18 (E) May require a customer to comply with generation
19 interconnection, safety, and reliability requirements, as determined by the
20 Public Service Board by rule ~~or order~~, and may charge reasonable fees for
21 interconnection, establishment, special metering, meter reading, accounting,

1 account correcting, and account maintenance of net metering arrangements of
2 greater than 15 kW capacity;

3 * * *

4 (I) ~~{Deleted.}~~ At the option of a net metering customer of the
5 company, may receive ownership of the environmental attributes of electricity
6 generated by the customer's net metering system in excess of the customer's
7 consumption during each billing period, including ownership of any associated
8 tradeable renewable energy credits. The company shall retain ownership of
9 those attributes and credits, which shall apply toward compliance with any
10 statutes enacted or rules adopted by the State requiring the company to own the
11 environmental attributes of renewable energy.

12 (J) May in its rate schedules offer credits or other incentives that may
13 include monetary payments to net metering customers. These credits or
14 incentives shall not displace the benefits provided to such customers under
15 subsections (e) and (f) of this section.

16 (K) ~~Except as provided in subdivision (v) of this subdivision (1)(K),~~
17 ~~shall~~ Shall in its rate schedules offer a credit to each net metering customer
18 using solar energy that shall apply to each kWh generated by the customer's
19 solar net metering system and that shall not displace the benefits provided to
20 such customers under subsections (e) and (f) of this section.

1 (i) The credit required by this subdivision (K) shall be ~~\$0.20~~ the
2 adder sum minus the residential rate per kWh charged by the company as of
3 the date it files with the Board a proposed modification to its rate schedules to
4 effect this subdivision (K) or to revise a credit previously instituted under this
5 subdivision (K). ~~For the purposes of~~ Under this subdivision (K), ~~the~~:

6 (I) The adder sum shall be \$0.20 if the solar net metering
7 system is of 15 kW capacity or less and otherwise shall be \$0.19.

8 (II) The residential rate shall be the kWh rate charged by the
9 company under its general residential rate schedule that consists of two rate
10 components: a service charge and a kWh rate, and shall exclude time-of-use
11 rates and demand rates.

12 (III) If a company's general residential rate schedule includes
13 inclining block rates, the residential rate shall be the highest of those block
14 rates a blended rate calculated in the same manner as under subdivision (e)(3)
15 (A) of this section.

16 (IV) Notwithstanding the basis for this credit calculation, the
17 amount of the credit shall not fluctuate with changes in the underlying
18 residential rate used to calculate the amount.

19 (ii) The electric company shall apply the credit calculated in
20 accordance with subdivision (i) of this subdivision (1)(K) to generation from
21 each net metering system using solar energy regardless of the customer's rate

1 class. A credit under this subdivision (K) shall be applied to all charges on the
2 customer's bill from the electric company and shall be subject to the provisions
3 of subdivisions (e)(3)(B)(credit for unused balance) and (C)(12-month
4 reversion) and (f)(3)(credit for excess generation; group net metering) of this
5 section.

6 (iii) An electric company's proposed modification to a rate
7 schedule to offer a credit under this subdivision (K) and any investigation
8 initiated by the Board or party other than the company of an existing credit
9 contained in such a rate schedule shall be reviewed in accordance with the
10 procedures set forth in section 225 of this title, except that:

11 (I) A company's proposed modification shall take effect on
12 filing with the Board and shall not be subject to suspension under section 226
13 of this title;

14 (II) Such a modification or investigation into an existing credit
15 shall not require review of the company's entire cost of service; and

16 (III) Such a modification or existing credit may be altered by
17 the Board for prospective effect only commencing with the date of the Board's
18 decision.

19 (iv) ~~Within 30 days of this subdivision's effective date, each~~
20 ~~electric company shall file a proposed modification to its rate schedule that~~
21 ~~complies with this subdivision (K). Such proposed modification, as it may be~~

1 ~~revised by the Board, shall not be changed for two years starting with the date~~
2 ~~of the Board's decision on the modification. After the passage of that two-year~~
3 ~~period, further modifications to the amount of a credit under this subdivision~~
4 ~~may be made in accordance with subdivisions (i)–(iii) of this subdivision~~
5 ~~(1)(K).~~

6 ~~(v) An electric company shall not be required to offer a credit~~
7 ~~under this subdivision (K) if, as of the effective date of this subdivision, the~~
8 ~~result of the calculation described in subdivision (i) of this subdivision (1)(K)~~
9 ~~is zero or less.~~

10 ~~(vi) A solar net metering system shall receive the amount of the~~
11 ~~credit under this subdivision (K) that is in effect for the service territory in~~
12 ~~which the system is installed as of the date of the system's installation and~~
13 ~~shall continue to receive that amount for not less than 10 years after that date~~
14 ~~regardless of any subsequent modification to the credit as contained in the~~
15 ~~electric company's rate schedules.~~

16 ~~(vii)(v) Not later than 30 days after Board approval of an If a solar~~
17 ~~net metering system placed into service prior to the interconnecting electric~~
18 ~~company's first rate schedule proposed to comply with this subdivision (1)(K);~~
19 ~~the company shall offer the amount of the credit contained in such rate~~
20 ~~schedule to each solar net metering system placed into service prior to the date~~
21 ~~on which the company submitted the proposed schedule to the Board. Each~~

1 ~~system that accepts this offer~~ accepted that rate schedule, the system shall
2 receive the credit for not less than 10 years after the date of ~~such~~ that
3 acceptance, provided that the system remains in service, and regardless of any
4 subsequent modification to the credit as contained in the company's rate
5 schedules.

6 (vi) Should an additional meter at the premises of the net metering
7 customer be necessary to implement this subdivision ~~(vii)(K)~~, or should that
8 meter need replacement because it fails or is destroyed, the net metering
9 customer shall not pay a charge greater than the cost of the equipment and
10 installation of the additional or replacement meter.

11 (2) All such requirements or credits or other incentives shall be pursuant
12 to and governed by a tariff approved by the ~~board and any applicable Board~~
13 that is consistent with Board rule rules under this section, which tariffs and
14 rules shall be designed in a manner reasonably likely to facilitate net metering.
15 With respect to a credit or incentive under subdivision (1)(J) (optional credit or
16 incentive) or (K) (solar credit) of this subsection (h) that is provided to a net
17 metering system that constitutes new renewable energy under subdivision
18 8002(4) of this title:

19 (A) If the credit or incentive applies to each kWh generated by the
20 system, then the system's energy production shall count toward the goals and
21 requirements of subsection 8005(d) of this title.

1 (B) If the credit or incentive applies only to the system's net energy
2 production supplied to the company, then the increment of net energy
3 production supplied by the customer to the company through a net metering
4 system that is supported by such additional credit or incentive shall count
5 toward the goals and requirements of subsection 8005(d) of this title.

6 (i)(1) A net metering system using photovoltaic generation shall conform to
7 applicable electrical safety, power quality, and interconnection requirements
8 established by the National Electrical Code, the Institute of Electrical and
9 Electronic Engineers, and Underwriters Laboratories. The customer shall be
10 responsible for installation, testing, accuracy, and maintenance of net metering
11 equipment.

12 (2) ~~By March 1, 1999, the~~ The Board shall adopt, by rule ~~or order~~,
13 electrical safety, power quality, and interconnection requirements for net
14 metering equipment which uses generation technologies other than
15 photovoltaic technology. In developing safety rules, and any amendments to
16 those rules, the Board shall solicit input from representatives of utilities and
17 agents representing line workers.

18 (3) The Board may adopt, by rule ~~or order~~, additional safety, power
19 quality, and interconnection requirements for customers that the Board
20 determines are necessary to protect public safety and system reliability.

1 (4) ~~Pending the effective date of requirements adopted by the Board~~
2 ~~under subsection (c) of this section and subdivision (2) of this subsection, an~~
3 ~~electric company may allow a customer to interconnect a net metering system,~~
4 ~~to be operated as provided in this section, if the company is reasonably~~
5 ~~satisfied concerning the safety and power quality of the system. The customer~~
6 ~~may then operate the net metering system pending application for and receipt~~
7 ~~of a certificate of public good under subsection (c) of this section, provided~~
8 ~~such application shall be made within three months after the effective date of~~
9 ~~requirements adopted by the Board under subsection (c).~~

10 (5) An electric company may, at its own expense, and upon reasonable
11 written notice to the customer, perform such testing and inspection of a net
12 metering system in order to confirm that the system conforms to applicable
13 electrical safety, power quality, and interconnection requirements.

14 (j) ~~[Deleted.]~~ [Repealed.]

15 * * *

16 (m) A facility for the generation of electricity to be consumed primarily by
17 the Military Department established under 3 V.S.A. § 212 and 20 V.S.A.
18 § 361(a) or the National Guard as defined in 32 U.S.C. § 101(3), and installed
19 on property of the Military Department or National Guard located in Vermont,
20 shall be considered a net metering system for purposes of this section if it has a
21 capacity of 2.2 MW or less and meets the provisions of subdivisions (a)(3)(B)

1 through (E) of this section. Such a facility shall not be subject to and shall not
2 count toward the capacity limits of subdivisions (a)(3)(A) (no more than
3 500 kW) and (h)(1)(A) (~~four~~ 15 percent of peak demand) of this section.

4 (n) As a pilot project, an electric cooperative under chapter 81 of this title
5 may construct a facility or group of facilities for the generation of electricity to
6 be consumed by the company or its customers and installed on land owned or
7 leased by the company.

8 (1) Under this pilot project, the Board shall consider the facility or group
9 of facilities a net metering system if the cumulative capacity of the facility or
10 group of facilities does not exceed five MW and each facility otherwise meets
11 the definition of a net metering system. In applying this definition to the
12 facility or group of facilities, the Board shall treat the electric cooperative's
13 consumption as the consumption of a customer.

14 (2) As part of this pilot project, the electric cooperative may propose to
15 the Board credit amounts, bill procedures, or energy measurement
16 methodologies that are alternative to the requirements of subsections
17 (e) (credits; single meter systems), (f) (credits; group net metering systems),
18 and (g) (requirements, group net metering systems) and subdivision (h)(1)(K)
19 (required solar incentive) of this section. Using the procedures set forth in
20 section 225 of this title, the Board may approve these alternatives if it
21 determines that they are just and reasonable.

1 (3) Under this pilot project, the electric cooperative may seek siting
2 approval for the facility or group of facilities pursuant to the Board's order
3 issued under subsection 8007(b) of this title, notwithstanding that subsection's
4 limitation to plants with a plant capacity greater than 150 kW and 2.2 MW or
5 less.

6 (4) If an electric cooperative elects to implement a pilot project under
7 this subsection, then:

8 (A) the allocation of the pilot project toward the cooperative's
9 cumulative output capacity under subdivision (h)(1)(A) of this section shall not
10 exceed four percent; and

11 (B) any remaining unallocated capacity of the cooperative under
12 subdivision (h)(1)(A) of this section as of the effective date of this act shall be
13 allocated equally among calendar years 2014, 2015, and 2016, with any unused
14 capacity in any one year carrying forward to the next year.

15 (o) An electric company that meets and maintains the renewable energy
16 achievement requirements of subdivision (1) of this subsection may implement
17 an alternative net metering program if approved in accordance with
18 subdivision (2) of this subsection.

19 (1) This renewable energy achievement provision shall require that:

1 (A) the cumulative output capacity of net metering systems installed
2 in the electric company’s service territory, calculated in accordance with
3 subdivision (h)(1)(A) of this section, meets or exceeds 10 percent;

4 (B) the electric company owns and has retired tradeable renewable
5 energy credits monitored and traded on the New England Generation
6 Information System equivalent to 90 percent of the company’s total annual
7 retail sales of electricity for the prior year; and

8 (C) the electric company certifies, by annual written submission to
9 the Board, compliance with the requirements of subdivisions (1)(A) and (B) of
10 this subsection (o).

11 (2) Using the procedures set forth in section 225 of this title, an electric
12 company that meets the requirements of subdivision (1) of this subsection may
13 propose to the Board a rate schedule to implement a net metering program in
14 its service territory that is consistent with the company’s supply portfolio, that
15 may have a capacity limit that differs from the limit contained in the definition
16 of net metering system, that may require the company to own the
17 environmental attributes of generation within the program and any associated
18 tradeable renewable energy credits, and that may provide for credit amounts,
19 bill procedures, or energy measurement methodologies that are alternative to
20 the requirements of subsections (e) (credits; single meter systems), (f) (credits;
21 group net metering systems), and (g) (requirements, group net metering

1 systems) and subdivision (h)(1)(K) (required solar incentive) of this section.

2 The Board may approve this rate schedule if it determines that it is just and
3 reasonable.

4 * * * Comprehensive Net Metering Revisions for 2017 * * *

5 Sec. 2. REVISED NET METERING PROGRAM; DEVELOPMENT;
6 REPORTS; RULEMAKING

7 (a) Process; revised program. This section creates a process to result in the
8 establishment of a revised net metering program commencing on January 1,
9 2017. The components of the process include a report by the Department of
10 Public Service (DPS) to the Public Service Board (Board or PSB), one or more
11 workshops by the Board, the adoption of rules for the new program by the
12 Board with a contemporaneous report by the Board to the General Assembly,
13 and the adoption of new net metering rate schedules by Vermont's retail
14 electricity providers.

15 (b) DPS report to Board. On or before October 1, 2014, the DPS shall
16 submit a report to the Board that evaluates the current state of net metering in
17 Vermont. The report shall:

18 (1) analyze the current pace of net metering deployment, both statewide
19 and within the service territory of each electric company;

20 (2) after considering the goals and policies of 10 V.S.A. § 578
21 (greenhouse gas reduction), 30 V.S.A. § 202a (State energy policy), 30 V.S.A.

1 chapter 89 (renewable energy), and the Comprehensive Energy Plan issued in
2 2011, recommend the future pace of net metering deployment statewide and
3 within the service territory of each electric company;

4 (3) analyze the existence and degree of cross-subsidy between net
5 metering customers and other customers on a statewide and on an individual
6 electric company basis;

7 (4) evaluate the effect of net metering on electric company infrastructure
8 and revenue;

9 (5) analyze the economic and environmental benefits of net metering,
10 and the short- and long-term impacts on rates, both statewide and for each
11 electric company;

12 (6) analyze the reliability and supply diversification costs and benefits
13 of net metering; and

14 (7) examine and evaluate best practices for net metering identified from
15 other states.

16 (c) Workshops. Beginning in October 2014, the Board shall convene one
17 or more workshops to solicit the input of potentially affected parties and the
18 public on the design of a revised net metering program. The Board shall
19 provide notice of the workshops on its website and directly to the Department,
20 the electric companies, and Renewable Energy Vermont and to any other
21 person that requests direct notice or to whom the Board may consider direct

1 notice appropriate. The Board also shall provide an opportunity for
2 submission of written comments, which the notice shall include.

3 (d) Rulemaking. On completion of the workshops, the Board shall
4 commence a rulemaking proceeding and, on or before January 1, 2016, shall
5 finally adopt rules for a revised net metering program to take effect on
6 January 1, 2017.

7 (1) 30 V.S.A. § 219a shall not apply to the rules to be adopted under
8 this section.

9 (2) The provisions of Secs. 4 (definitions; 30 V.S.A. § 8001) and
10 5 (self-generation and net metering; 30 V.S.A. § 8010) shall apply to the rules
11 to be adopted under this section. Within the requirements of these provisions,
12 the Board may consider approaches to net metering that are alternative to those
13 currently employed in the State and that ensure a sustainable net metering
14 program that achieves, in a balanced and equitable manner, the goals and
15 policies identified in subdivision (b)(2) of this section.

16 (3) In adopting rules under this section, the Board shall consider the
17 DPS report under subsection (b) of this section and the comments received
18 during the workshop process under subsection (c) of this section.

19 (e) On or before January 1, 2016, the Board shall provide a report to the
20 House Committee on Natural Resources and Energy, Senate Committee on
21 Natural Resources and Energy, and Senate Committee on Finance on

1 January 1, 2016, summarizing the public comment received, providing the
2 Board’s evaluation of the effectiveness of the existing net metering program,
3 describing the alternative approaches to net metering that it considered in
4 adopting the rules under this section, and summarizing and attaching the rules
5 adopted by the Board under this section.

6 (f) Following the Board’s final adoption of rules under this section, each
7 retail electricity provider within the meaning of 30 V.S.A. § 8002 shall, on a
8 schedule directed by the Board, submit revised rate schedules that comply with
9 those rules, for effect on January 1, 2017. The provisions of Secs. 4
10 (definitions; 30 V.S.A. § 8001) and 5 (self-generation and net metering;
11 30 V.S.A. § 8010) shall apply to the rate schedules to be adopted under this
12 section.

13 Sec. 3. REPEAL

14 30 V.S.A. §§ 219a (self-generation and net metering) and 219b (net
15 metering program expansion) are repealed.

16 Sec. 4. 30 V.S.A. § 8002 is amended to read:

17 § 8002. DEFINITIONS

18 As used in this chapter:

19 (1) “Board” means the Public Service Board under section 3 of this title,
20 except when used to refer to the Clean Energy Development Board.

1 (2) “Commissioned” or “commissioning” means the first time a plant is
2 put into operation following initial construction or modernization if the costs of
3 modernization are at least 50 percent of the costs that would be required to
4 build a new plant including all buildings and structures technically required for
5 the new plant’s operation. However, these terms shall not include activities
6 necessary to establish operational readiness of a plant.

7 (3) “CPI” means the Consumer Price Index for all urban consumers,
8 designated as “CPI-U,” in the northeast region, as published by the U.S.
9 Department of Labor, Bureau of Labor Statistics.

10 (4) “Customer” means a retail electric consumer.

11 (5) “Department” means the Department of Public Service under
12 section 1 of this title, unless the context clearly indicates otherwise.

13 ~~(5)~~(6) “Energy conversion efficiency” means the effective use of energy
14 and heat from a combustion process.

15 ~~(6)~~(7) “Environmental attributes” means the characteristics of a plant
16 that enable the energy it produces to qualify as renewable energy and include
17 any and all benefits of the plant to the environment such as avoided emissions
18 or other impacts to air, water, or soil that may occur through the plant’s
19 displacement of a nonrenewable energy source.

20 ~~(7)~~(8) “Existing renewable energy” means renewable energy produced
21 by a plant that came into service prior to or on December 31, 2004.

1 ~~(8)~~(9) “Greenhouse gas reduction credits” shall be as defined in section
2 8006a of this title.

3 (10) “Group net metering system” means a net metering system serving
4 more than one customer located within the service area of the same retail
5 electricity provider. Various buildings owned by municipalities, including
6 water and wastewater districts, fire districts, villages, school districts, and
7 towns, may constitute a group net metering system. A union or district school
8 facility shall be considered in the same group net metering system with
9 buildings of its member municipalities that are located within the service area
10 of the same retail electricity provider that serves the facility.

11 ~~(9)~~(11) “kW” means kilowatt or kilowatts (AC).

12 ~~(10)~~(12) “kWh” means kW hour or hours.

13 ~~(11)~~(13) “MW” means megawatt or megawatts (AC).

14 ~~(12)~~(14) “MWH” means MW hour or hours.

15 (15) “Net metering” means measuring the difference between the
16 electricity supplied to a customer and the electricity fed back by the customer’s
17 net metering system during the customer’s billing period:

18 (A) using a single, nondemand meter or such other meter that would
19 otherwise be applicable to the customer’s usage but for the use of net
20 metering; or

1 (B) if the system serves more than one customer, using multiple
2 meters. The calculation shall be made by converting all meters to a
3 nondemand, nontime-of-day meter, and equalizing them to the tariffed
4 kWh rate.

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

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

8 (B) operates in parallel with facilities of the electric
9 distribution system;

10 (C) is intended primarily to offset the customer’s own
11 electricity requirements;

12 (D) is located on the customer’s premises or, in the case of a plant to
13 serve more than one customer, on the premises of one of the customers to be
14 served; and

15 (E)(i) employs a renewable energy source; or

16 (ii) is a qualified micro-combined heat and power system of
17 20 kW or fewer that meets the definition of combined heat and power in
18 subsection 8015(b) of this title and uses any fuel source that meets air
19 quality standards.

20 ~~(13)~~(17) “New renewable energy” means renewable energy produced by
21 a specific and identifiable plant coming into service after December 31, 2004.

1 (A) Energy from within a system of generating plants that includes
2 renewable energy shall not constitute new renewable energy, regardless of
3 whether the system includes specific plants that came or come into service
4 after December 31, 2004.

5 (B) “New renewable energy” also may include the additional energy
6 from an existing renewable energy plant retrofitted with advanced technologies
7 or otherwise operated, modified, or expanded to increase the kWh output of the
8 plant in excess of an historical baseline established by calculating the average
9 output of that plant for the 10-year period that ended December 31, 2004. If
10 the production of new renewable energy through changes in operations,
11 modification, or expansion involves combustion of the resource, the system
12 also must result in an incrementally higher level of energy conversion
13 efficiency or significantly reduced emissions.

14 (14)(18) “Plant” means an independent technical facility that generates
15 electricity from renewable energy. A group of ~~newly constructed~~ facilities,
16 such as wind turbines, shall be considered one plant if the group is part of the
17 same project and uses common equipment and infrastructure such as roads,
18 control facilities, and connections to the electric grid. Common ownership,
19 contiguity in time of construction, and proximity of facilities to each other
20 shall be relevant to determining whether a group of facilities is part of the same
21 project.

1 ~~(15)~~(19) “Plant capacity” means the rated electrical nameplate for a
2 plant, except that, in the case of a solar energy plant, the term shall mean the
3 aggregate AC nameplate capacity of all inverters used to convert the plant’s
4 output to AC power.

5 ~~(16)~~(20) “Plant owner” means a person who has the right to sell
6 electricity generated by a plant.

7 ~~(17)~~(21) “Renewable energy” means energy produced using a
8 technology that relies on a resource that is being consumed at a harvest rate at
9 or below its natural regeneration rate.

10 (A) For purposes of this subdivision ~~(17)~~(21), methane gas and other
11 flammable gases produced by the decay of sewage treatment plant wastes or
12 landfill wastes and anaerobic digestion of agricultural products, byproducts, or
13 wastes shall be considered renewable energy resources, but no form of solid
14 waste, other than agricultural or silvicultural waste, shall be considered
15 renewable.

16 (B) For purposes of this subdivision ~~(17)~~(21), no form of nuclear fuel
17 shall be considered renewable.

18 (C) The only portion of electricity produced by a system of
19 generating resources that shall be considered renewable is that portion
20 generated by a technology that qualifies as renewable under this
21 subdivision ~~(17)~~(21).

1 (D) ~~After conducting administrative proceedings, the~~ The Board by
2 rule may add technologies or technology categories to the definition of
3 “renewable energy,” provided that technologies using the following fuels shall
4 not be considered renewable energy supplies: coal, oil, propane, and
5 natural gas.

6 (E) ~~For the purposes of~~ In this chapter, renewable energy refers to
7 either “existing renewable energy” or “new renewable energy.”

8 ~~(18)(22)~~(A) “Renewable pricing” shall mean an optional service
9 provided or contracted for by an electric company:

10 (i) under which the company’s customers may voluntarily either:

11 (I) purchase all or part of their electric energy from renewable
12 sources as defined in this chapter; or

13 (II) cause the purchase and retirement of tradeable renewable
14 energy credits on the participating customer’s behalf; and

15 (ii) which increases the company’s reliance on renewable sources
16 of energy beyond those the electric company would otherwise be required to
17 provide under section 218c of this title.

18 (B) Renewable pricing programs may include:

19 (i) contribution-based programs in which participating customers
20 can determine the amount of a contribution, monthly or otherwise, that will be

1 deposited in a Board-approved fund for new renewable energy project
2 development;

3 (ii) energy-based programs in which customers may choose all or
4 a discrete portion of their electric energy use to be supplied from renewable
5 resources;

6 (iii) facility-based programs in which customers may subscribe to
7 a share of the capacity or energy from specific new renewable energy
8 resources.

9 ~~(19)~~(23) “Retail electricity provider” or “provider” means a company
10 engaged in the distribution or sale of electricity directly to the public.

11 ~~(20)~~(24) “SPEED Facilitator” means an entity appointed by the Board
12 pursuant to subdivision 8005(b)(1) of this title.

13 ~~(21)~~(25) “SPEED resources” means contracts for resources in the
14 SPEED program established under section 8005 of this title that meet the
15 definition of renewable energy under this section, whether or not
16 environmental attributes are attached.

17 ~~(22)~~(26) “Tradeable renewable energy credits” means all of the
18 environmental attributes associated with a single unit of energy generated by a
19 renewable energy source where:

20 (A) those attributes are transferred or recorded separately from that
21 unit of energy;

1 (B) the party claiming ownership of the tradeable renewable energy
2 credits has acquired the exclusive legal ownership of all, and not less than all,
3 the environmental attributes associated with that unit of energy; and

4 (C) exclusive legal ownership can be verified through an auditable
5 contract path or pursuant to the system established or authorized by the Board
6 or any program for tracking and verification of the ownership of environmental
7 attributes of energy legally recognized in any state and approved by the Board.

8 ~~(23)~~(27) “Vermont composite electric utility system” means the
9 combined generation, transmission, and distribution resources along with the
10 combined retail load requirements of the Vermont retail electricity providers.

11 Sec. 5. 30 V.S.A. § 8010 is added to read:

12 § 8010. SELF-GENERATION AND NET METERING

13 (a) A customer may install and operate a net metering system in accordance
14 with this section and the rules adopted under this section.

15 (b) A net metering customer shall pay the same rates, fees, or other
16 payments and be subject to the same conditions and requirements as all other
17 purchasers from the interconnecting retail electricity provider in the same
18 rate-class, except as this section or the rules adopted under this section may
19 provide, and except for appropriate and necessary conditions approved by the
20 Board for the safety and reliability of the electric distribution system.

1 (c) In accordance with this section, the Board shall adopt and implement
2 rules that govern the installation and operation of net metering systems.

3 (1) The rules shall establish and maintain a net metering program that:

4 (A) advances the goals and total renewables targets of this chapter
5 and the goals of 10 V.S.A. § 578 (greenhouse gas reduction) and is consistent
6 with the criteria of subsection 248(b) of this title;

7 (B) achieves a level of deployment that is consistent with the
8 recommendations of the Electrical Energy and Comprehensive Energy Plans
9 under sections 202 and 202b of this title, unless the Board determines that this
10 level is inconsistent with the goals and targets identified in subdivision (1)(A)
11 of this subsection. Under this subdivision (B), the Board shall consider the
12 Plans most recently issued at the time the Board adopts or amends the rules;

13 (C) promotes equity between net metering customers and other
14 customers;

15 (D) accounts for all costs and benefits of net metering, including the
16 potential for net metering to contribute toward relieving supply constraints in
17 the transmission and distribution systems and to reduce consumption of fossil
18 fuels for heating and transportation;

19 (E) ensures that all customers who want to participate in net metering
20 have the opportunity to do so;

1 (F) balances, over time, the pace of deployment and cost of the
2 program with the program’s impact on rates; and

3 (G) accounts for changes over time in the cost of technology.

4 (2) The rules shall include provisions that govern:

5 (A) the cumulative plant capacity of net metering systems to be
6 installed over time;

7 (B) the transfer of certificates of public good issued for net metering
8 systems and the abandonment of net metering systems;

9 (C) the respective duties of retail electricity providers and net
10 metering customers;

11 (D) the electrical safety, power quality, interconnection, and metering
12 of net metering systems;

13 (E) the formation of group net metering systems, the resolution of
14 disputes between group net metering customers and the interconnecting
15 provider, and the billing, crediting, and disconnection of group net metering
16 customers by the interconnecting provider;

17 (F) the amount of the credit to be assigned to each kWh of electricity
18 generated by a net metering customer in excess of the electricity supplied by
19 the interconnecting provider to the customer, the manner in which the
20 customer’s credit will be applied on the customer’s bill, and the period during

1 which a net metering customer must use the credit, after which the credit shall
2 revert to the interconnecting provider; and

3 (G) the ownership and transfer of the environmental attributes of
4 energy generated by net metering systems and of any associated tradeable
5 renewable energy credits.

6 (3) The rules shall establish standards and procedures governing
7 application for and issuance or revocation of a certificate of public good for net
8 metering systems under the provisions of section 248 of this title. In
9 establishing these standards and procedures, the rules:

10 (A) may waive the requirements of section 248 of this title that are
11 not applicable to net metering systems, including criteria that are generally
12 applicable to public service companies as defined in this title;

13 (B) may modify notice and hearing requirements of this title as the
14 Board considers appropriate; and

15 (C) shall seek to simplify the application and review process as
16 appropriate.

17 (4) Each retail electricity provider shall implement net metering in its
18 service territory through a tariff that is consistent with this section and the rules
19 adopted under this section and is approved by the Board.

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* * * Technical Corrections * * *

[TO BE COMPLETED]

* * * Effective Dates * * *

Sec. 6. EFFECTIVE DATES; APPLICABILITY; IMPLEMENTATION

(a) This section and Secs. 1 (self-generation and net metering; 30 V.S.A. § 219a) and 2 (revised net metering program; development; reports; rulemaking) shall take effect on passage.

(b) In this subsection, “amended subdivisions” means 30 V.S.A. § 219a(e)(3)(A) (credits; blended rate), (e)(4)(B) (credits; blended rate) and (h)(1)(K) (mandatory solar incentive) as amended by Sec. 1 of this act. Electric distribution companies shall implement the amended subdivisions in accordance with the following schedule:

(1) Within 30 days of passage, an electric distribution company shall file with the Public Service Board a proposed modification to its net metering rate schedule that complies with the amended subdivisions if, as of December 31, 2013, the cumulative output capacity of net metering systems in the company’s service territory was not less than 4.0 percent of its peak demand during 1996 or its peak demand during 2012, whichever peak demand was greater. In accordance with 30 V.S.A. § 219a(h)(1)(K)(I), this proposed modification shall take effect on filing with the Board.

1 (2) On or before November 15, 2014, each electric distribution company
2 that is not subject to subdivision (b)(1) of this section shall file with the Public
3 Service Board a proposed modification to its net metering rate schedule that
4 complies with the amended subdivisions. Notwithstanding 30 V.S.A.
5 § 219a(h)(1)(K)(I) and the effective date of Sec. 1, this proposed modification
6 shall take effect on and no earlier than January 1, 2015.

7 (c) In Sec. 1, 30 V.S.A. § 219a(a)(1) (definitions; capacity) shall apply to
8 net metering systems for which applications are filed on and after July 1, 2014
9 and shall not apply to net metering systems for which applications were filed
10 before that date.

11 (d) Sec. 3 (repeal of 30 V.S.A. § 219a) shall take effect on January 1, 2017.
12 However, nothing in this section or in the repeal of 30 V.S.A. § 219a or 219b
13 shall affect the validity or terms of a certificate of public good issued for a net
14 metering system prior to that date.

15 (e) Secs. 4 (definitions; 30 V.S.A. § 8002) and 5 (self-generation and net
16 metering; 30 V.S.A. § 8010) shall take effect on January 1, 2017, except that
17 on passage of this act, these sections shall apply to the reports to be submitted
18 and the rules and rate schedules to be adopted under Sec. 2.

19 (f) 30 V.S.A. § 219a and rules adopted under that section shall govern
20 applications for net metering systems filed prior to January 1, 2017.

- 1 (g) 30 V.S.A. § 8010 and rules adopted under that section shall govern
- 2 applications for net metering systems filed on and after January 1, 2017.

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