

1 H.133

2 Introduced by Representatives Briglin of Thetford, Scheuermann of Stowe,
3 and Sibia of Dover

4 Referred to Committee on

5 Date:

6 Subject: Public Service; energy; reporting; energy storage

7 Statement of purpose of bill as introduced: This bill proposes to permit the
8 Department of Public Service to consolidate its Title 30 reporting requirements
9 into the Annual Energy Report. This bill also proposes to include
10 consideration and application of energy storage.

11 An act relating to miscellaneous energy subjects

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

13 ~~Sec. 1. 30 V.S.A. § 203a is amended to read:~~

14 § 203a. FUEL EFFICIENCY FUND

15 * * *

16 (c) Report. ~~On or before January 15, 2010, and annually thereafter, the~~
17 ~~Department of Public Service shall report to the General Assembly on the~~
18 ~~expenditure of funds from the Fuel Efficiency Fund to meet the public's needs~~
19 ~~for energy efficiency services. The provisions of 2 V.S.A. § 26(d) (Expiration~~

1 ~~of required reports) shall not apply to the report to be made under this~~
2 ~~subsection. [Repealed.]~~

3 * * *

4 Sec. 2. 2012 Acts and Resolves No. 165, Section 2 is amended to read:

5 Sec. 2. MEMORANDUM OF UNDERSTANDING; SMALL
6 HYDROELECTRIC PROJECTS

7 * * *

8 ~~(e) No later than January 15, 2014 and annually by each second January 15~~
9 ~~thereafter, the commissioner shall submit a written report to the general~~
10 ~~assembly detailing the progress of the MOU program, including an~~
11 ~~identification of each hydroelectric project participating in the program. After~~
12 ~~five hydroelectric projects participating in the program are approved and~~
13 ~~commence operation, reports filed under this subsection shall evaluate and~~
14 ~~provide lessons learned from the program, including recommendations, if any,~~
15 ~~on how to improve procedures for obtaining approval of micro hydroelectric~~
16 ~~projects (100 kilowatts capacity or less). The provisions of 2 V.S.A. § 20(d)~~
17 ~~(expiration of required reports) shall not apply to the report to be submitted~~
18 ~~under this subsection. [Repealed.]~~

19

1 ~~Sec. 3. 30 V.S.A. § 8105 is amended to read:~~

2 ~~§ 8105. REPORTING~~

3 ~~(a) A host community for which a Vermont village green renewable project~~
4 ~~has been certified under this chapter shall file a report to the Commission and~~
5 ~~the Commissioner of Public Service by December 31 of each year following~~
6 ~~certification. The report shall contain such information as is required by the~~
7 ~~Commission and the Commissioner. The report shall include at a minimum~~
8 ~~sufficient information for the Commissioner of Public Service to submit the~~
9 ~~report required by subsection (b) of this section.~~

10 ~~(b) Beginning on March 1, 2010, and annually thereafter, the~~
11 ~~Commissioner of Public Service shall submit a report to the Senate~~
12 ~~Committees on Economic Development, Housing and General Affairs, on~~
13 ~~Finance, and on Natural Resources and Energy, and the House Committees on~~
14 ~~Ways and Means, on Commerce and Economic Development, and on Energy~~
15 ~~and Technology, and the Governor, which shall include an update on progress~~
16 ~~made in the development of the Vermont village green renewable projects~~
17 ~~authorized under this chapter. The report also shall include an analysis of the~~
18 ~~costs and benefits of the projects as well as any recommendations consistent~~
19 ~~with the purposes of this chapter. The provisions of 2 V.S.A. § 20(d)~~
20 ~~(expiration of required reports) shall not apply to the report to be made under~~
21 ~~this subsection. [Repealed.]~~

1 ~~Sec. 4. 30 V.S.A. § 8005b is amended to read:~~

2 § 8005b. RENEWABLE ENERGY PROGRAMS; REPORTS

3 (a) The Department shall file reports with the General Assembly in
4 accordance with this section.

5 * * *

6 (2) The Department shall ~~file the report under~~ include the components
7 of subsection (b) of this section annually each January 15 in its Annual Energy
8 Report required under subsection 202b(e) of this title commencing in 2018
9 2020 through 2033.

10 (3) The Department shall ~~file the report under~~ include the components
11 of subsection (c) of this section biennially each March 1 in its Annual Energy
12 Report required under subsection 202b(e) of this title biennially commencing
13 in 2017 2020 through 2033.

14 * * *

15 (c) The biennial report under this section shall include at least each of the
16 following:

17 * * *

18 (2) Commencing with the report to be filed in 2019, each retail
19 electricity provider's required amount of renewable energy during the two
20 preceding calendar years using the most recent available data for each category
21 of the RES as set forth in section 8005 of this title.

1 * * *

2 Sec. 5. 30 V.S.A. § 8010 is amended to read:

3 § 8010. SELF-GENERATION AND NET METERING

4 * * *

5 (d) ~~On or before January 15, 2020 and every third January 15 thereafter~~
6 Commencing in 2021 and biennially thereafter, the Department shall submit to
7 the Commission a report that evaluates its evaluation of the current state of net
8 metering in Vermont, which shall be included within the Department's Annual
9 Energy Report required under subsection 202b(e) of this title and shall also be
10 submitted to the Committees listed under subdivision 202b(e)(2) of this title.
11 ~~The Department shall make this report publicly available. The report~~
12 evaluation shall:

13 * * *

14 Sec. 6. 30 V.S.A. § 201 is amended to read:

15 § 201. DEFINITIONS

16 * * *

17 (c) As used in this chapter, "energy storage" means a system that uses
18 mechanical, chemical, or thermal processes to store energy for later use.

19 (d) As used in this chapter, "distributed energy resources" (DER) means a
20 resource sited close to customers that can provide all or some of their
21 immediate electric and power needs and can also be used by the system to

1 ~~er reduce demand, such as energy efficiency, or provide supply to satisfy the~~
2 energy, capacity, or ancillary service needs of the distribution grid. The
3 resources, if providing electricity or thermal energy, are small in scale,
4 connected to the distribution system, and close to load. Examples of types of
5 DER include solar photovoltaic, wind, combined heat and power, energy
6 storage, demand response, electric vehicles, microgrids, and energy efficiency.

7 (e) As used in this chapter, “microgrid” means a group of interconnected
8 loads and distributed energy resources within clearly defined electrical
9 boundaries that acts as a single controllable entity with respect to the grid. A
10 microgrid can connect and disconnect from the grid and enable it to operate in
11 both grid-connected mode or island mode.

12 Sec. 7. 30 V.S.A. § 8002 is amended to read:

13 § 8002. DEFINITIONS

14 As used in this chapter:

15 * * *

16 (18) “Plant” means an independent technical facility that generates
17 electricity from renewable energy or that uses mechanical, chemical, or
18 thermal processes to store such electricity for later use. A group of facilities,
19 such as wind turbines, shall be considered one plant if the group is part of the
20 same project and uses common equipment and infrastructure such as roads,
21 control facilities, and connections to the electric grid. Common ownership,

1 ~~contiguity in time of construction, and proximity of facilities to each other~~
2 shall be relevant to determining whether a group of facilities is part of the
3 same project.

4 * * *

5 Sec. 8. 30 V.S.A. § 248 is amended to read:

6 § 248. NEW GAS AND ELECTRIC PURCHASES, INVESTMENTS, AND
7 FACILITIES; CERTIFICATE OF PUBLIC GOOD

8 (a)(1) No company, as defined in section 201 of this title, may:

9 * * *

10 (B) invest in an electric generation facility, energy storage facility or
11 aggregated facilities with a capacity of 500 kW or more, or transmission
12 facility located outside this State unless the Public Utility Commission first
13 finds that the same will promote the general good of the State and issues a
14 certificate to that effect.

15 (2) Except for the replacement of existing facilities with equivalent
16 facilities in the usual course of business, ~~and except for~~ electric generation
17 facilities that are operated solely for on-site electricity consumption by the
18 owner of those facilities, energy storage facilities that do not export power to
19 the grid, and ~~for~~ hydroelectric generation facilities subject to licensing
20 jurisdiction under the Federal Power Act, 16 U.S.C. Chapter 12, subchapter 1.

1 ~~tor of a deed. The prescribed form shall not exceed one page and shall require~~
2 identification of the land on which the facility is to be located by reference to
3 the conveyance to the current landowner, the number of the certificate, and the
4 name of each person to which the certificate was issued, and shall include
5 information on how to contact the Commission to view the certificate and
6 supporting documents.

7 Sec. 9. PUBLIC UTILITY COMMISSION ENERGY STORAGE UPDATE

8 The Public Utility Commission (PUC) shall update its decommissioning
9 and aesthetic rules to include energy storage facilities. The PUC, in
10 consultation with the Department of Public Service, shall develop
11 recommendations for how to incorporate energy storage facilities into the Net
12 Metering Rules adopted pursuant to 30 V.S.A. § 8010. The PUC shall report
13 these recommendations to the General Assembly on or before December 31,
14 2019.

15 Sec. 10. EFFECTIVE DATE

16 ~~This act shall take effect on July 1, 2019.~~

Sec. 1. 30 V.S.A. § 203a is amended to read:

§ 203a. FUEL EFFICIENCY FUND

** * **

*(c) Report.—On or before January 15, 2010, and annually thereafter, the
Department of Public Service shall report to the General Assembly on the*

~~expenditure of funds from the Fuel Efficiency Fund to meet the public's needs for energy efficiency services. The provisions of 2 V.S.A. § 20(d) (expiration of required reports) shall not apply to the report to be made under this subsection. [Repealed.]~~

* * *

Sec. 2. 2012 Act and Resolves No. 165, Section 2 is amended to read:

*Sec. 2 MEMORANDUM OF UNDERSTANDING; SMALL
HYDROELECTRIC PROJECTS*

* * *

~~(e) No later than January 15, 2014 and annually by each second January 15 thereafter, the commissioner shall submit a written report to the general assembly detailing the progress of the MOU program, including an identification of each hydroelectric project participating in the program. After five hydroelectric projects participating in the program are approved and commence operation, reports filed under this subsection shall evaluate and provide lessons learned from the program, including recommendations, if any, on how to improve procedures for obtaining approval of micro hydroelectric projects (100 kilowatts capacity or less). The provisions of 2 V.S.A. § 20(d) (expiration of required reports) shall not apply to the report to be submitted under this subsection. [Repealed.]~~

* * *

Sec. 3. 30 V.S.A. § 8105 is amended to read:

§ 8105. REPORTING

(a) A host community for which a Vermont village green renewable project has been certified under this chapter shall file a report to the Commission and the Commissioner of Public Service by December 31 of each year following certification. The report shall contain such information as is required by the Commission and the Commissioner. The report shall include at a minimum sufficient information for the Commissioner of Public Service to submit the report required by subsection (b) of this section.

(b) Beginning on March 1, 2010, and annually thereafter, the Commissioner of Public Service shall submit a report to the Senate Committees on Economic Development, Housing and General Affairs, on Finance, and on Natural Resources and Energy, and the House Committees on Ways and Means, on Commerce and Economic Development, and on Energy and Technology, and the Governor, which shall include an update on progress made in the development of the Vermont village green renewable projects authorized under this chapter. The report also shall include an analysis of the costs and benefits of the projects as well as any recommendations consistent with the purposes of this chapter. The provisions of 2 V.S.A. § 20(d) (expiration of required reports) shall not apply to the report to be made under this subsection. [Repealed.]

Sec. 4. 30 V.S.A. §202b is amended to read:

§ 202b. STATE COMPREHENSIVE ENERGY PLAN

** * **

(e) The Commissioner of Public Service (Commissioner) shall file an annual report on progress in meeting the goals of the Plan. The report shall address each of the following sectors of energy consumption in the State: electricity, nonelectric fuels for thermal purposes, and transportation. In preparing the report, the Commissioner shall consult with the Secretaries of Administration, of Agriculture, Food and Markets, of Natural Resources, and of Transportation and the Commissioner of Buildings and General Services.

** * **

(7) The report shall include any activity that occurs under the Vermont Small Hydropower Assistance Program, the Vermont Village Green Program, and the Fuel Efficiency Fund.

Sec. 5. 30 V.S.A. § 8005b is amended to read:

§ 8005b. RENEWABLE ENERGY PROGRAMS; REPORTS

(a) The Department shall file reports with the General Assembly in accordance with this section.

** * **

(2) The Department shall ~~file the report under~~ include the components of subsection (b) of this section annually each January 15 in its Annual Energy

Report required under subsection 202b(e) of this title commencing in 2018
2020 through 2033.

(3) ~~The Department shall file the report under~~ include the components
of subsection (c) of this section biennially each March 1 in its Annual Energy
Report required under subsection 202b(e) of this title biennially commencing
in 2017 2020 through 2033.

* * *

(c) ~~The biennial report under this section shall include at least each of the
following:~~

* * *

(2) ~~Commencing with the report to be filed in 2019, each retail
electricity provider's required amount of renewable energy during the two
preceding calendar years~~ using the most recent available data for each
category of the RES as set forth in section 8005 of this title.

* * *

Sec. 6. 30 V.S.A. § 8010 is amended to read:

§ 8010. SELF-GENERATION AND NET METERING

* * *

(d) ~~On or before January 15, 2020 and every third January 15 thereafter
Commencing in 2021 and biennially thereafter, the Department shall submit to
the Commission a report that evaluates~~ its evaluation of the current state of net

metering in Vermont, which shall be included within the Department's Annual Energy Report required under subsection 202b(e) of this title and shall also be submitted to the Committees listed under subdivision 202b(e)(2) of this title.
~~The Department shall make this report publicly available. The report evaluation shall:~~

* * *

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

§ 202f. TELECOMMUNICATIONS AND CONNECTIVITY ADVISORY

BOARD

(a) There is created the Telecommunications and Connectivity Advisory Board for the purpose of making recommendations to the Commissioner of Public Service regarding his or her telecommunications responsibilities and duties as provided in this section. The Connectivity Advisory Board shall consist of eight members, ~~seven voting and one nonvoting,~~ selected as follows:

(1) the State Treasurer or designee;

(2) the Secretary of Commerce and Community Development or designee;

(3) five at-large members appointed by the Governor, who shall not be employees or officers of the State at the time of appointment; and

(4) the Secretary of Transportation or designee, ~~who shall be a nonvoting member.~~

* * *

(h) On ~~September 15, 2015~~ November 15, 2019, and annually thereafter, the Commissioner shall submit to the Connectivity Advisory Board an accounting of monies in the Connectivity Fund and anticipated revenue for the next year. ~~On or before January 1 of each year, the Commissioner, after consulting with the Connectivity Advisory Board, shall recommend to the relevant legislative committees of jurisdiction a plan for apportioning such funds to the High-Cost Program and the Connectivity Initiative.~~

* * *

Sec. 8. 30 V.S.A. § 7516 is amended to read:

§ 7516. CONNECTIVITY FUND

There is created a Connectivity Fund for the purpose of providing support to the High-Cost Program established under section 7515 of this chapter and the Connectivity Initiative established under section 7515b of this chapter. The fiscal agent shall determine annually, on or before ~~September~~ November 1, the amount of monies available to the Connectivity Fund. Such funds shall be apportioned as follows: 45 percent to the High-Cost Program and 55 percent to the Connectivity Initiative.

Sec. 9. 30 V.S.A. § 7001 is amended to read:

§ 7001. DEFINITIONS

In this chapter:

(1) “Commission” means the Public Utility Commission under section 3 of this title.

(2) “Company” means any public utility ~~company which~~, municipality, or person that supplies gas, electricity, hot water, steam, or telecommunications service and ~~which that~~ maintains underground utility facilities, and any cable television company operating a cable television system as defined in section 501 of this title ~~and which that~~ maintains underground utility facilities.

(3) “Damage” includes the substantial weakening of structural or lateral support of an underground utility facility;; penetration or destruction of any underground utility facility’s protective coating, housing, or device;; or the partial or complete severance of any underground utility facility.

(4) “Excavation activities” means any activities involving that will disturb the subsurface of the earth or could damage underground utility facilities and that may involve the removal of earth, rock, or other materials in the ground, ~~disturbing the subsurface of the earth,~~ or the demolition of any structure, by the discharge of explosives or the use of powered or mechanized equipment, including digging, trenching, blasting, boring, drilling, hammering, post driving, wrecking, razing, ~~or~~ tunneling, or pavement or concrete slab removal within 100 feet of an underground utility facility. Excavation activities shall not include the tilling of the soil for agricultural

purposes, routine home gardening with hand tools outside easement areas and public rights-of-way, activities relating to routine public highway maintenance, or the use of hand tools by a company, or the company's agent or a contractor working under the agent's direction, to locate or service the company's facilities, provided the company has a written damage prevention program.

(5) "Person" means any individual, trust, firm, joint stock company, corporation including a government corporation, partnership, association, state, municipality, commission, political subdivision of the ~~state~~ State, or any interstate body.

(6) "Public agency" means the State or any political subdivision thereof, including any governmental agency.

(7) "Approximate location of underground utility facilities" means a strip of land extending not more than 18 inches on either side of the underground utility facilities.

(8) "System" means the public utility underground facility damage prevention system referred to in section 7002 of this title.

(9) "Underground utility facility" or "facility" means any pipe, conduit, wire, or cable located beneath the surface of the earth and maintained by a company, including the protective covering of the pipe, conduit, wire, or cable, as well as any manhole, vault, ~~or~~ pedestal, or component maintained by a company.

(10) *“Premark” means to identify the general scope of excavation activities using white paint, stakes, or other suitable white markings, in a manner that will enable the operators of the underground utility facilities to know the boundaries of the proposed excavation activities.*

(11) *“Powered or mechanized equipment” means equipment that is powered or energized by any motor, engine, or hydraulic or pneumatic device and that is used for excavation or demolition work.*

(12) *“Hand tools” means tools powered solely by human energy.*

(13) *“Verified” means the location and depth have been ~~physically determined by hand digging~~ visually determined using careful and prudent excavating techniques such as hand digging, water excavation, or other safe means.*

(14) *“Damage prevention program” means a program established to ensure employees involved in excavation activities are aware of and utilize appropriate and safe excavating practices.*

Sec. 10. 30 V.S.A. § 7003 is amended to read:

§ 7003. RULEMAKING

The Commission shall adopt rules, pursuant to 3 V.S.A. chapter 25 relative to:

(1) minimum requirements for the operation of the System, including notification procedures and the reporting of underground utility facility locations;

(2) procedures for the investigation of complaints;

(3) emergency situations ~~for which notice of excavation activities is not required;~~

(4) uniform standards for the marking of the approximate location of underground utility facilities;

(5) uniform standards for the future installation of underground utility facilities, including the following:

(A) color coding of facilities;

(B) depth requirements for the laying of facilities;

(C) subsurface marking of facilities;

(D) surface marking of facilities;

(E) the filing of as-built plans of facilities with municipalities; and

(F) capability for location of facilities by sensors; and

(6) standards for the granting of exemptions under section 7002 of this title; and

(7) situations where the premarks cannot be found.

Sec. 11. 30 V.S.A. § 7004 is amended to read:

§ 7004. NOTICE OF EXCAVATION ACTIVITIES

(a) No person or company shall engage in excavation activities, except in an emergency situation as defined by the Commission, without premarking the proposed area of excavation activities and giving notice as required by this section.

(b) Prior to notifying the System, the person shall premark the area of proposed excavation activities in a manner that will enable operators of underground facilities to identify the boundaries of the proposed excavation activities.

(c) At least 48 hours, excluding Saturdays, Sundays, and legal holidays, but not more than 30 days before commencing excavation activities, each person required to give notice of excavation activities shall notify the System referred to in section 7002 of this title. Such notice shall set forth a reasonably accurate and readily identifiable description of the geographical location of the proposed excavation activities and the premarks.

(e)(d) Notice to the System may be in writing or by telephone. For purposes of this section, the System shall provide a toll-free telephone number.

~~(d) Prior to notifying the System, the person must premark the area of proposed excavation activities in a manner that will enable operators of underground facilities to identify the boundaries of the proposed excavation activities. Premarking is not required if the actual excavation will be continuous and will exceed 500 feet in length.~~

(e) Notice of excavation activities shall be valid for an excavation site until one of the following occurs:

- (1) the excavation is not completed within 30 days of the notification;*
- (2) the markings become faded, illegible, or destroyed; or*
- (3) the company installs new underground facilities in a marked area*

still under excavation.

Sec. 12. 30 V.S.A. § 7006b is amended to read:

§ 7006b. EXCAVATION AREA PRECAUTIONS

Any person engaged in excavating activities in the approximate location of underground utility facilities marked pursuant to section 7006 of this title shall take reasonable precautions to avoid damage to underground utility facilities, including any substantial weakening of the structural or lateral support of such facilities or penetration, severance, or destruction of such facilities. ~~When excavation activities involve horizontal or directional boring, the~~ The person engaged in excavation activities shall expose underground facilities to verify their location and depth, in a safe manner, at each location where the work will cross a facility and at reasonable intervals when paralleling an underground facility. Powered or mechanized equipment may only be used within the approximate location where the facilities have been verified.

Sec. 13. 30 V.S.A. § 7007 is amended to read:

§ 7007. NOTICE OF DAMAGE

When any underground utility facility is damaged during excavation activities, the excavator shall immediately notify the affected company. Under no circumstances shall the excavator backfill or conceal the damaged area until the company inspects and repairs the damage, provided that the excavator shall take reasonable and prudent actions to protect the public from serious injury from the damaged facilities until the company or emergency response personnel arrive at the damaged area. An excavator who causes damage to a pipeline that results in a release of natural or other gas or hazardous liquid shall promptly report the release to emergency responders by calling 911.

Sec. 14. 30 V.S.A. § 209(e) is amended to read:

(e) Thermal energy and process fuel efficiency funding.

(1) Each of the following shall be used to deliver thermal energy and process fuel energy efficiency services in accordance with this section for unregulated fuels to Vermont consumers of such fuels. In addition, the Commission may authorize an entity appointed to deliver such services under subdivision (d)(2)(B) of this section to use monies subject to this subsection for the engineering, design, and construction of facilities for the conversion of thermal energy customers using fossil fuels to district heat if the majority of the district's energy is from biomass sources, the district's distribution system is highly energy efficient, and such conversion is cost effective.

* * *

Sec. 15. EFFECTIVE DATE

This act shall take effect on July 1, 2019.