



1 or otherwise operated, modified, or expanded to increase the kWh output of the  
2 plant in excess of an historical baseline established by calculating the average  
3 output of that plant for the 10-year period that ended June 30, 2015 or  
4 December 31, 2004. If the production of new renewable energy through  
5 changes in operations, modification, or expansion involves combustion of the  
6 resource, the system also must result in an incrementally higher level of energy  
7 conversion efficiency or significantly reduced emissions.

8 \* \* \*

9 Sec. 2. 30 V.S.A. § 8005 is amended to read:

10 § 8005. RES CATEGORIES

11 (a) Categories. This section specifies three categories of required resources  
12 to meet the requirements of the RES established in section 8004 of this title:  
13 total renewable energy, distributed renewable generation, and energy  
14 transformation.

15 (1) Total renewable energy.

16 \* \* \*

17 (B) Required amounts. The amounts of total renewable energy  
18 required by this subsection shall be ~~55~~ 59 percent of each retail electricity  
19 provider's annual retail electric sales during the year beginning on January 1,  
20 ~~2017~~ 2020, increasing by an additional ~~four~~ 8.2 percent each ~~third~~ second

1 January 1 thereafter; until reaching ~~75~~ 100 percent on and after January 1, ~~2032~~  
2 2030.

3 \* \* \*

4 (2) Distributed renewable generation.

5 \* \* \*

6 **(B) Definition.** As used in this section, “distributed renewable  
7 generation” means one of the following:

8 (i) a renewable energy plant that is new renewable energy; has a  
9 plant capacity of five MW or less; and

10 (I) is directly connected to the subtransmission or distribution  
11 system of a Vermont retail electricity provider; or

12 (II) is directly connected to the transmission system of an  
13 electric company required to submit a Transmission System Plan under  
14 subsection 218c(d) of this title, if the plant is part of a plan approved by the  
15 Commission to avoid or defer a transmission system improvement needed to  
16 address a transmission system reliability deficiency identified and analyzed in  
17 that Plan; ~~or~~

18 (ii) a net metering system approved under the former section 219a  
19 or under section 8010 of this title if the system is new renewable energy and  
20 the interconnecting retail electricity provider owns and retires the system’s  
21 environmental attributes; or

1                    (iii) a hydroelectric renewable energy plant that has a plant  
2                    capacity of five MW or less and is owned and operated by a retail electricity  
3                    provider that is a municipal electric utility as of January 1, 2020, including any  
4                    future modifications.

5                    (C) Required amounts. The required amounts of distributed  
6                    renewable generation shall be one percent of each retail electricity provider's  
7                    annual retail electric sales during the year beginning on January 1, 2017,  
8                    increasing by an additional three-fifths of a percent each subsequent January 1  
9                    until reaching ~~40~~ 3.4 percent on ~~and after~~ January 1, 2021, and increasing by  
10                    an additional 1.564 percent each subsequent January 1 until reaching 20  
11                    percent on and after January 1, 2032.

12                    (i) The provisions of this subdivision shall not apply to a retail  
13                    electricity provider that meets the requirements of subdivision (b)(1) of this  
14                    section.

15                    (ii) A retail electricity provider and Vermont Electric Power  
16                    Company shall provide a GIS-based interconnection map depicting the  
17                    location and capacity of existing substations and circuits and noting any  
18                    significant impediments to interconnection to the Commission, which shall  
19                    make them available to municipalities, developers, and other relevant persons  
20                    as appropriate to assist in determining the appropriate location for new

1 renewable generation. Retail electricity providers shall update the maps no  
2 less than quarterly or on a more frequent schedule set by the Commission.

3 (iii) On or before December 15, 2020 and every third year  
4 thereafter, the Commission shall, in consultation with the Department  
5 concerning the costs of the Renewable Energy Standard, recommend  
6 adjustments to legislation, rules, policies, and programs to the General  
7 Assembly to support the implementation of this section in a cost-effective  
8 manner that takes into account economic benefits, environmental benefits, and  
9 greenhouse gas reductions. These recommendations shall include:

10 (I) Strategies to ensure that renewable generation is located to  
11 maximize benefits to the state's economy, community resilience, and the  
12 reliability and efficiency of the distribution and transmission system and to  
13 minimize ratepayer costs and the need for upgrades to the distribution and  
14 transmission system.

15 (II) Suggestions to streamline and adjust the permitting process  
16 and potential financial incentives to be based on the location of distributed  
17 renewable generation on the distribution and transmission system, and the  
18 colocation of that generation with energy storage technologies.

19 \* \* \*

20 Sec. 3. RENEWABLE ENERGY STANDARDS PURSUANT TO

21 30 V.S.A. § 8005

1        (a) Pursuant to 30 V.S.A. § 8005(a)(1)(B), the amounts of total renewable  
2        energy required shall be 59 percent of each retail electricity provider’s annual  
3        retail electric sales during the year beginning on January 1, 2020, increasing by  
4        an additional 8.2 percent each second January 1 thereafter until reaching 100  
5        percent on and after January 1, 2030:

<u>Year</u>	<u>Increment</u>	<u>Percentage</u>
<u>2020</u>		<u>59.00%</u>
<u>2022</u>	<u>8.20%</u>	<u>67.20%</u>
<u>2024</u>	<u>8.20%</u>	<u>75.40%</u>
<u>2026</u>	<u>8.20%</u>	<u>83.60%</u>
<u>2028</u>	<u>8.20%</u>	<u>91.80%</u>
<u>2030</u>	<u>8.20%</u>	<u>100.00%</u>

13        (b) Pursuant to 30 V.S.A. § 8005(a)(2)(C), the required amounts of  
14        distributed renewable generation shall be one percent of each retail electricity  
15        provider’s annual retail electric sales during the year beginning on January 1,  
16        2017, increasing by an additional three-fifths of a percent each subsequent  
17        January 1 until reaching 10 3.4 percent on and after January 1, 2021, and  
18        increasing by an additional 1.564 percent each subsequent January 1 until  
19        reaching 20 percent on and after January 1, 2032:

<u>Year</u>	<u>Increment</u>	<u>Percentage</u>
<u>2017</u>		<u>1.00%</u>

1	<u>2018</u>	<u>0.600%</u>	<u>1.60%</u>
2	<u>2019</u>	<u>0.600%</u>	<u>2.20%</u>
3	<u>2020</u>	<u>0.600%</u>	<u>2.80%</u>
4	<u>2021</u>	<u>0.600%</u>	<u>3.40%</u>
5	<u>2022</u>	<u>1.564%</u>	<u>4.36%</u>
6	<u>2023</u>	<u>1.564%</u>	<u>5.93%</u>
7	<u>2024</u>	<u>1.564%</u>	<u>7.49%</u>
8	<u>2025</u>	<u>1.564%</u>	<u>9.06%</u>
9	<u>2026</u>	<u>1.564%</u>	<u>10.62%</u>
10	<u>2027</u>	<u>1.564%</u>	<u>12.18%</u>
11	<u>2028</u>	<u>1.564%</u>	<u>13.75%</u>
12	<u>2029</u>	<u>1.564%</u>	<u>15.31%</u>
13	<u>2030</u>	<u>1.564%</u>	<u>16.88%</u>
14	<u>2031</u>	<u>1.564%</u>	<u>18.44%</u>
15	<u>2032</u>	<u>1.564%</u>	<u>20.00%</u>

16 Sec. 4. STUDIES AND REPORTS

17 The Agency of Natural Resources (ANR), in conjunction with the  
18 Department of Public Service, shall conduct a full life-cycle analysis of the  
19 total greenhouse gases emitted during the planning, construction, and operation  
20 of hydroelectric renewable energy plants with a capacity of 200 MW or more  
21 that are within the supply portfolio of a Vermont retail electricity provider.

1 ANR shall submit a written report on its findings to the General Assembly on  
2 or before January 20, 2021.

3 Sec. 5. EFFECTIVE DATE

4 This act shall take effect on July 1, 2020.

5

6

7 (Committee vote: \_\_\_\_\_)

8

9

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\_\_\_\_\_

Senator \_\_\_\_\_

FOR THE COMMITTEE

