

HOUSE AMENDMENTS TO HOUSE BILL 2940

By COMMITTEE ON SUSTAINABILITY AND ECONOMIC DEVELOPMENT

April 30

1 In line 2 of the printed bill, after the semicolon delete the rest of the line and insert “creating
2 new provisions; and amending ORS 469A.020 and 469A.025.”.

3 In line 22, after “1995,” insert “and is located in this state”.

4 After line 24, insert:

5 **“SECTION 2. To facilitate the creation of hydrogen power stations using anhydrous am-**
6 **monia as a fuel source to comply with the renewable portfolio standards under ORS 469A.005**
7 **to 469A.210, the Public Utility Commission may allow full recovery of costs by public utilities**
8 **in prudent energy investments related to the planning, financing, construction and operation**
9 **of hydrogen power stations. These investments include, but are not limited to:**

10 **“(1) Systems designed to synthesize anhydrous ammonia fuel using electricity generated**
11 **from renewable energy sources listed in ORS 469A.025;**

12 **“(2) Infrastructure designed to store anhydrous ammonia generated from renewable en-**
13 **ergy sources as a nonpolluting fuel for electric power generation and for other purposes;**

14 **“(3) Energy systems designed to use anhydrous ammonia generated from renewable en-**
15 **ergy sources as a fuel to generate electric power; and**

16 **“(4) Electronic control and management systems designed to effectively integrate hy-**
17 **drogen power station processes into the electric power grid.**

18 **“SECTION 3.** ORS 469A.025 is amended to read:

19 **“469A.025. (1) Electricity generated utilizing the following types of energy may be used to com-**
20 **ply with a renewable portfolio standard:**

21 **“(a) Wind energy.**

22 **“(b) Solar photovoltaic and solar thermal energy.**

23 **“(c) Wave, tidal and ocean thermal energy.**

24 **“(d) Geothermal energy.**

25 **“(2) Except as provided in subsection (3) of this section, electricity generated from biomass and**
26 **biomass by-products may be used to comply with a renewable portfolio standard, including but not**
27 **limited to electricity generated from:**

28 **“(a) Organic human or animal waste;**

29 **“(b) Spent pulping liquor;**

30 **“(c) Forest or rangeland woody debris from harvesting or thinning conducted to improve forest**
31 **or rangeland ecological health and to reduce uncharacteristic stand replacing wildfire risk;**

32 **“(d) Wood material from hardwood timber grown on land described in ORS 321.267 (3);**

33 **“(e) Agricultural residues;**

34 **“(f) Dedicated energy crops; and**

35 **“(g) Landfill gas or biogas produced from organic matter, wastewater, anaerobic digesters or**

1 municipal solid waste.

2 “(3) Electricity generated from the direct combustion of biomass may not be used to comply with
3 a renewable portfolio standard if any of the biomass combusted to generate the electricity includes:

4 “(a) Municipal solid waste; or

5 “(b) Wood that has been treated with chemical preservatives such as creosote,
6 pentachlorophenol or chromated copper arsenate.

7 “(4) Electricity generated by a hydroelectric facility may be used to comply with a renewable
8 portfolio standard only if:

9 “(a) The facility is located outside any protected area designated by the Pacific Northwest
10 Electric Power and Conservation Planning Council as of July 23, 1999, or any area protected under
11 the federal Wild and Scenic Rivers Act, Public Law 90-542, or the Oregon Scenic Waterways Act,
12 ORS 390.805 to 390.925; or

13 “(b) The electricity is attributable to efficiency upgrades made to the facility on or after Janu-
14 ary 1, 1995.

15 “(5) Up to 50 average megawatts of electricity per year generated by an electric utility from
16 certified low-impact hydroelectric facilities described in ORS 469A.020 (4) may be used to comply
17 with a renewable portfolio standard, without regard to the number of certified facilities operated
18 by the electric utility or the generating capacity of those facilities. A hydroelectric facility described
19 in this subsection is not subject to the requirements of subsection (4) of this section.

20 “(6) Electricity generated from hydrogen gas, **including electricity generated by hydrogen**
21 **power stations using anhydrous ammonia as a fuel source**, [*derived from any source of energy*
22 *described in subsections (1) to (5) of this section*] may be used to comply with a renewable portfolio
23 standard **if:**

24 “(a) **The energy is derived from:**

25 “(A) **Any source of energy described in subsections (1) and (2) of this section; or**

26 “(B) **A hydroelectric facility that complies with subsection (4) of this section and is from**
27 **a certified low-impact hydroelectric facility described in ORS 469A.020 (4); and**

28 “(b) **The output of the original source of energy is not also used to comply with the**
29 **renewable portfolio standard.**

30 “(7) If electricity generation employs multiple energy sources, that portion of the electricity
31 generated that is attributable to energy sources described in subsections (1) to (6) of this section
32 may be used to comply with a renewable portfolio standard.

33 “(8) The State Department of Energy by rule may approve energy sources other than those de-
34 scribed in this section that may be used to comply with a renewable portfolio standard. The de-
35 partment may not approve petroleum, natural gas, coal or nuclear fission as an energy source that
36 may be used to comply with a renewable portfolio standard.”.

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