

HOUSE BILL 931

C5

4r1344
CF SB 530

By: **Delegates Stein, Cardin, Morhaim, and Rudolph**

Introduced and read first time: February 5, 2014

Assigned to: Economic Matters

A BILL ENTITLED

1 AN ACT concerning

2 **Renewable Energy Portfolio Standard – Thermal Energy**

3 FOR the purpose of altering the renewable energy portfolio standard for certain years;
4 providing for certain thermal energy sources to be either Tier 1 thermal energy
5 sources or Tier 2 thermal energy sources; requiring an electricity supplier to
6 meet the renewable energy portfolio standard by accumulating a certain
7 amount of renewable energy credits and thermal renewable energy credits;
8 providing that thermal energy from a Tier 1 thermal renewable source is
9 eligible for inclusion in meeting the renewable portfolio standard if it is
10 generated at a certain system or facility; providing that thermal energy from a
11 Tier 2 thermal renewable source is eligible for meeting the renewable portfolio
12 standard through a certain year if it is generated at a certain system or facility;
13 applying certain provisions that relate to renewable energy credits to thermal
14 renewable energy credits; repealing a provision that provided that an electricity
15 supplier received credit toward meeting the renewable energy portfolio standard
16 for electricity derived from the biomass fraction of biomass co-fired with other
17 fuels; repealing a provision that limited which persons could receive renewable
18 energy credits for energy generated by a certain geothermal heating and cooling
19 system; altering the method of determining the amount of thermal renewable
20 energy credits generated by a certain geothermal heating and cooling system;
21 altering the method of determining the amount of thermal renewable energy
22 credits generated by a certain animal manure biomass system; providing that
23 thermal energy from a woody biomass system is eligible for inclusion in meeting
24 the renewable energy portfolio standard under certain circumstances; requiring
25 the Commission to adopt certain regulations relating to woody biomass systems;
26 requiring the Commission to consider certain metering and verification methods
27 for woody biomass systems when adopting certain regulations; authorizing an
28 interested party to petition the Commission to adopt certain new metering and
29 verification methods under certain circumstances; providing that certain
30 systems shall receive thermal renewable energy credits only for the portion of
31 thermal energy generated by certain sources; providing that the owner of a

EXPLANATION: CAPITALS INDICATE MATTER ADDED TO EXISTING LAW.

[Brackets] indicate matter deleted from existing law.



1 certain geothermal heating and cooling system or animal manure biomass
 2 system that is registered with the Commission to receive renewable energy
 3 credits as a Tier 1 renewable source before a certain date may remain registered
 4 as a Tier 1 renewable source that generates renewable energy credits or
 5 reregister as a Tier 1 thermal renewable source that generates thermal
 6 renewable energy credits; requiring the Commission, on or before a certain date
 7 each year, to publish certain information on its Web site regarding the
 8 availability of thermal renewable energy credits and the adjustment of certain
 9 compliance fees under certain circumstances; requiring an electricity supplier,
 10 on or before a certain date each year, to submit certain thermal renewable
 11 energy credits or pay a certain compliance fee under certain circumstances;
 12 providing that an electricity supplier may not be required to comply with a
 13 certain obligation if insufficient thermal renewable energy credits are available
 14 by a certain date through a certain electronic system; setting certain compliance
 15 fees for a certain thermal renewable energy credits shortfall; requiring the
 16 Commission to establish a market-based trading system on the Internet where
 17 producers of thermal renewable energy credits may register and publish
 18 thermal renewable energy credits for sale to an electricity supplier; defining
 19 certain terms; altering and repealing certain definitions; making certain
 20 clarifying changes; and generally relating to the renewable energy portfolio
 21 standard.

22 BY repealing and reenacting, with amendments,
 23 Article – Public Utilities
 24 Section 7–701, 7–703, 7–704, 7–705(a) and (b), and 7–708
 25 Annotated Code of Maryland
 26 (2010 Replacement Volume and 2013 Supplement)

27 BY adding to
 28 Article – Public Utilities
 29 Section 7–705(g)
 30 Annotated Code of Maryland
 31 (2010 Replacement Volume and 2013 Supplement)

32 SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF
 33 MARYLAND, That the Laws of Maryland read as follows:

34 **Article – Public Utilities**

35 7–701.

36 (a) In this subtitle the following words have the meanings indicated.

37 (b) “Administration” means the Maryland Energy Administration.

38 (c) **“ANIMAL MANURE BIOMASS SYSTEM” MEANS A SYSTEM THAT:**

1 **(1) USES:**

2 **(I) PRIMARILY ANIMAL MANURE, INCLUDING POULTRY**
3 **LITTER, AND ASSOCIATED BEDDING TO GENERATE THERMAL ENERGY THROUGH**
4 **EITHER ANAEROBIC DIGESTION OR A THERMOCHEMICAL PROCESS; AND**

5 **(II) FOOD WASTE OR QUALIFIED BIOMASS FOR THE**
6 **REMAINDER OF THE FEEDSTOCK; AND**

7 **(2) COMPLIES WITH ALL APPLICABLE STATE AND FEDERAL LAWS**
8 **AND REGULATIONS.**

9 **[(c)] (D)** “Fund” means the Maryland Strategic Energy Investment Fund
10 established under § 9–20B–05 of the State Government Article.

11 **[(d)] (E)** “Geothermal heating and cooling system” means a system that:

12 (1) exchanges thermal energy from groundwater or a shallow ground
13 source to generate thermal energy through a geothermal heat pump or a system of
14 geothermal heat pumps interconnected with any geothermal extraction facility that is:

15 (i) a closed loop or a series of closed loop systems in which fluid
16 is permanently confined within a pipe or tubing and does not come in contact with the
17 outside environment; or

18 (ii) an open loop system in which ground or surface water is
19 circulated in an environmentally safe manner directly into the facility and returned to
20 the same aquifer or surface water source;

21 (2) meets or exceeds the **[current]** federal Energy Star product
22 specification standards **IN EFFECT AT THE TIME OF SYSTEM INSTALLATION;**

23 (3) **[replaces or displaces inefficient space or water heating systems**
24 **whose primary fuel is electricity or a nonnatural gas fuel source;**

25 (4) **replaces or displaces inefficient space cooling systems that do not**
26 **meet federal Energy Star product specification standards;**

27 **[(5)] (4)** is manufactured, installed, and operated in accordance with
28 applicable government and industry standards; and

29 **[(6)] (5)** does not feed electricity back to the grid.

1 **[(e)] (F)** “Industrial process load” means the consumption of electricity by a
2 manufacturing process at an establishment classified in the manufacturing sector
3 under the North American Industry Classification System, Codes 31 through 33.

4 **[(f)] (G)** “Offshore wind energy” means energy generated by a qualified
5 offshore wind project.

6 **[(g)] (H)** “Old growth timber” means timber from a forest:

7 (1) at least 5 acres in size with a preponderance of old trees, of which
8 the oldest exceed at least half the projected maximum attainable age for the species;
9 and

10 (2) that exhibits several of the following characteristics:

11 (i) shade-tolerant species are present in all age and size
12 classes;

13 (ii) randomly distributed canopy gaps are present;

14 (iii) a high degree of structural diversity characterized by
15 multiple growth layers reflecting a broad spectrum of ages is present;

16 (iv) an accumulation of dead wood of varying sizes and stages of
17 decomposition accompanied by decadence in live dominant trees is present; and

18 (v) pit and mound topography can be observed.

19 **[(h)] (I)** “Offshore wind renewable energy credit” or “OREC” means a
20 renewable energy credit equal to the generation attributes of 1 megawatt-hour of
21 electricity that is derived from offshore wind energy.

22 **[(i)] (J)** “PJM region” means the control area administered by the PJM
23 Interconnection, as the area may change from time to time.

24 **[(j)] (K)** “Poultry litter” means the fecal and urinary excretions of poultry,
25 including wood shavings, sawdust, straw, rice hulls, and other bedding material for
26 the disposition of manure.

27 **[(k)] (L)** “Qualified offshore wind project” means a wind turbine electricity
28 generation facility, including the associated transmission-related interconnection
29 facilities and equipment, that:

30 (1) is located on the outer continental shelf of the Atlantic Ocean in an
31 area that:

1 (i) the United States Department of the Interior designates for
2 leasing after coordination and consultation with the State in accordance with § 388(a)
3 of the Energy Policy Act of 2005; and

4 (ii) is between 10 and 30 miles off the coast of the State;

5 (2) interconnects to the PJM Interconnection grid at a point located on
6 the Delmarva Peninsula; and

7 (3) the Commission approves under § 7-704.1 of this subtitle.

8 **[(1)] (M)** (1) “Qualifying biomass” means a nonhazardous, organic
9 material that is available on a renewable or recurring basis, and is:

10 (i) waste material that is segregated from inorganic waste
11 material and is derived from sources including:

12 1. except for old growth timber, any of the following
13 forest-related resources:

14 A. mill residue, except sawdust and wood shavings;

15 B. precommercial soft wood thinning;

16 C. slash;

17 D. brush; or

18 E. yard waste;

19 2. a pallet, crate, or dunnage; **OR**

20 3. agricultural and silvicultural sources, including tree
21 crops, vineyard materials, grain, legumes, sugar, and other crop by-products or
22 residues; or

23 **[4. gas produced from the anaerobic decomposition of**
24 **animal waste or poultry waste; or]**

25 (ii) a plant that is cultivated exclusively for purposes of being
26 used at a **[Tier 1 renewable source or a] Tier 2 THERMAL** renewable source to produce
27 **[electricity] THERMAL ENERGY.**

28 (2) **["Qualifying biomass" includes biomass listed in paragraph (1) of**
29 **this subsection that is used for co-firing, subject to § 7-704(d) of this subtitle.**

1 (3)] “Qualifying biomass” does not include:

2 (i) unsegregated solid waste or postconsumer wastepaper; or

3 (ii) an invasive exotic plant species.

4 [(m) “Thermal biomass system” means a system that:

5 (1) uses:

6 (i) primarily animal manure, including poultry litter, and
7 associated bedding to generate thermal energy; and

8 (ii) food waste or qualifying biomass for the remainder of the
9 feedstock;

10 (2) is used in the State; and

11 (3) complies with all applicable State and federal statutes and
12 regulations, as determined by the appropriate regulatory authority.]

13 (n) “Renewable energy credit” or “credit” means a credit equal to the
14 [generation] **ENVIRONMENTAL** attributes of 1 megawatt–hour of electricity that is
15 derived from a Tier 1 renewable source or a Tier 2 renewable source that is located:

16 (1) in the PJM region;

17 (2) outside the area described in item (1) of this subsection but in a
18 control area that is adjacent to the PJM region, if the electricity is delivered into the
19 PJM region; or

20 (3) on the outer continental shelf of the Atlantic Ocean in an area that:

21 (i) the United States Department of the Interior designates for
22 leasing after coordination and consultation with the State in accordance with § 388(a)
23 of the Energy Policy Act of 2005; and

24 (ii) is between 10 and 30 miles off the coast of the State.

25 (o) “Renewable energy portfolio standard” or “standard” means the
26 percentage of electricity sales at retail in the State that is to be derived from
27 **RENEWABLE ENERGY CREDITS GENERATED BY Tier 1 renewable sources and Tier 2**
28 **renewable sources AND THERMAL RENEWABLE ENERGY CREDITS GENERATED BY**
29 **TIER 1 THERMAL RENEWABLE ENERGY SOURCES AND TIER 2 THERMAL**
30 **RENEWABLE ENERGY SOURCES** in accordance with § 7–703(b) of this subtitle.

1 (p) “Renewable on–site generator” means a person who generates electricity
2 **OR THERMAL ENERGY** on site from a Tier 1 renewable source, [or a] Tier 2 renewable
3 source, **TIER 1 THERMAL RENEWABLE SOURCE, OR TIER 2 THERMAL**
4 **RENEWABLE SOURCE** for the person’s own use.

5 (q) (1) “Solar water heating system” means a system that:

6 (i) consists of glazed liquid–type flat–plate or tubular solar
7 collectors or concentrating solar thermal collectors as defined and certified to the
8 OG–100 standard of the Solar Ratings and Certification Corporation;

9 (ii) generates energy using solar radiation for the purpose of
10 heating water; and

11 (iii) does not feed electricity back to the electric grid.

12 (2) “Solar water heating system” does not include a system that
13 generates energy using solar radiation for the sole purpose of heating a hot tub or
14 swimming pool.

15 **(R) “THERMAL RENEWABLE ENERGY CREDIT” MEANS A CREDIT EQUAL**
16 **TO THE ENVIRONMENTAL ATTRIBUTES OF 3,412,000 BTUS OF THERMAL**
17 **ENERGY:**

18 **(1) GENERATED BY A TIER 1 THERMAL RENEWABLE SOURCE OR**
19 **TIER 2 THERMAL RENEWABLE SOURCE; AND**

20 **(2) USED FOR A USEFUL THERMAL APPLICATION.**

21 **[(r)] (S)** “Tier 1 renewable source” means one or more of the following types
22 of energy sources:

23 (1) solar energy, including energy from photovoltaic technologies and
24 solar water heating systems;

25 (2) wind;

26 (3) **[qualifying biomass] GAS FROM ANAEROBIC DECOMPOSITION**
27 **OF ANIMAL WASTE OR POULTRY WASTE;**

28 (4) methane from the anaerobic decomposition of organic materials in
29 a landfill or wastewater treatment plant;

30 (5) geothermal[, including energy generated through geothermal
31 exchange from or thermal energy avoided by, groundwater or a shallow ground
32 source];

1 (6) ocean, including energy from waves, tides, currents, and thermal
2 differences;

3 (7) a fuel cell that produces electricity from a Tier 1 renewable source
4 under item (3) or (4) of this subsection;

5 (8) a small hydroelectric power plant of less than 30 megawatts in
6 capacity that is licensed or exempt from licensing by the Federal Energy Regulatory
7 Commission;

8 (9) poultry litter-to-energy;

9 (10) waste-to-energy; AND

10 (11) refuse-derived fuel[]; and

11 (12) thermal energy from a thermal biomass system].

12 **(T) “TIER 1 THERMAL RENEWABLE SOURCE” MEANS ONE OR MORE OF**
13 **THE FOLLOWING ENERGY SYSTEMS USED FOR THE GENERATION OF THERMAL**
14 **ENERGY:**

15 **(1) GEOTHERMAL HEATING AND COOLING SYSTEMS;**

16 **(2) ANIMAL MANURE BIOMASS SYSTEMS; AND**

17 **(3) WOODY BIOMASS SYSTEMS.**

18 **[(s)] (U) “Tier 2 renewable source” means hydroelectric power other than**
19 **pump storage generation.**

20 **(V) “TIER 2 THERMAL RENEWABLE SOURCE” MEANS A SYSTEM THAT**
21 **GENERATES THERMAL ENERGY USING QUALIFIED BIOMASS.**

22 **(W) (1) “USEFUL THERMAL APPLICATION” MEANS THERMAL ENERGY**
23 **THAT IS USED:**

24 **(I) FOR:**

25 **1. HEATING, INCLUDING AMBIENT BUILDING**
26 **TEMPERATURES AND WATER;**

27 **2. COOLING, INCLUDING AMBIENT BUILDING**
28 **TEMPERATURES;**

1 **3. HUMIDITY CONTROL; OR**

2 **4. PROCESS USE; AND**

3 **(II) IN PLACE OF ELECTRICITY OR A NONRENEWABLE FUEL**
4 **IN AN APPLICATION IN WHICH ELECTRICITY OR A NONRENEWABLE FUEL WOULD**
5 **HAVE OTHERWISE BEEN USED.**

6 **(2) “USEFUL THERMAL APPLICATION” DOES NOT INCLUDE**
7 **THERMAL ENERGY USED FOR:**

8 **(I) THE PURPOSE OF DRYING OR REFINING BIOMASS; OR**

9 **(II) THE SUBSEQUENT GENERATION OF ELECTRICITY.**

10 **(X) (1) “WOODY BIOMASS” MEANS:**

11 **(I) CLEAN AND UNTREATED WOOD SUCH AS BRUSH,**
12 **STUMPS, LUMBER ENDS OR TRIMMINGS, WOOD PALLETS, BARK, WOOD CHIPS OR**
13 **PELLETS, SHAVINGS, SAWDUST, OR SLASH;**

14 **(II) AN AGRICULTURAL CROP;**

15 **(III) BIOGAS PRODUCED FROM CLEAN AND UNTREATED**
16 **WOOD OR AGRICULTURAL CROPS; OR**

17 **(IV) LIQUID BIOFUEL PRODUCED FROM CLEAN AND**
18 **UNTREATED WOOD OR AGRICULTURAL CROPS.**

19 **(2) “WOODY BIOMASS” DOES NOT INCLUDE:**

20 **(I) MATERIALS DERIVED WHOLLY OR PARTLY FROM**
21 **CONSTRUCTION AND DEMOLITION DEBRIS; OR**

22 **(II) LIQUIDS DERIVED FROM MILL RESIDUE.**

23 **(Y) “WOODY BIOMASS SYSTEM” MEANS A SYSTEM THAT GENERATES**
24 **THERMAL ENERGY USING WOODY BIOMASS.**

25 7-703.

1 (a) (1) (i) The Commission shall implement a renewable energy
2 portfolio standard that, except as provided under paragraphs (2) and (3) of this
3 subsection, applies to all retail electricity sales in the State by electricity suppliers.

4 (ii) If the standard becomes applicable to electricity sold to a
5 customer after the start of a calendar year, the standard does not apply to electricity
6 sold to the customer during that portion of the year before the standard became
7 applicable.

8 (2) A renewable energy portfolio standard may not apply to electricity
9 sales at retail by any electricity supplier:

10 (i) in excess of 300,000,000 kilowatt–hours of industrial process
11 load to a single customer in a year;

12 (ii) to residential customers in a region of the State in which
13 electricity prices for residential customers are subject to a freeze or cap contained in a
14 settlement agreement entered into under § 7–505 of this title until the freeze or cap
15 has expired; or

16 (iii) to a customer served by an electric cooperative under an
17 electricity supplier purchase agreement that existed on October 1, 2004, until the
18 expiration of the agreement.

19 (3) The portion of a renewable energy portfolio standard that
20 represents offshore wind energy may not apply to electricity sales at retail by any
21 electricity supplier in excess of:

22 (i) 75,000,000 kilowatt–hours of industrial process load to a
23 single customer in a year; and

24 (ii) 3,000 kilowatt–hours of electricity in a month to a customer
25 who is an owner of agricultural land and files an Internal Revenue Service form 1040,
26 schedule F.

27 (b) The renewable energy portfolio standard shall be as follows:

28 (1) in 2006, 1% from Tier 1 renewable sources and 2.5% from Tier 2
29 renewable sources;

30 (2) in 2007, 1% from Tier 1 renewable sources and 2.5% from Tier 2
31 renewable sources;

32 (3) in 2008, 2.005% from Tier 1 renewable sources, including at least
33 0.005% derived from solar energy, and 2.5% from Tier 2 renewable sources;

1 (4) in 2009, 2.01% from Tier 1 renewable sources, including at least
2 0.01% derived from solar energy, and 2.5% from Tier 2 renewable sources;

3 (5) in 2010, 3.025% from Tier 1 renewable sources, including at least
4 0.025% derived from solar energy, and 2.5% from Tier 2 renewable sources;

5 (6) in 2011, 5.0% from Tier 1 renewable sources, including at least
6 0.05% derived from solar energy, and 2.5% from Tier 2 renewable sources;

7 (7) in 2012, 6.5% from Tier 1 renewable sources, including at least
8 0.1% derived from solar energy, and 2.5% from Tier 2 renewable sources;

9 (8) in 2013, 8.2% from Tier 1 renewable sources, including at least
10 0.25% derived from solar energy, and 2.5% from Tier 2 renewable sources;

11 (9) in 2014, 10.3% from Tier 1 renewable sources, including at least
12 0.35% derived from solar energy, and 2.5% from Tier 2 renewable sources;

13 (10) in [2015,] **2015:**

14 (I) 10.5% from Tier 1 renewable sources, including at least 0.5%
15 derived from solar energy[, and];

16 (II) 2.5% from Tier 2 renewable sources;

17 (III) **0.01% FROM TIER 1 THERMAL RENEWABLE SOURCES;**

18 **AND**

19 (IV) **3.0% FROM TIER 2 THERMAL RENEWABLE SOURCES;**

20 (11) in [2016,] **2016:**

21 (I) 12.7% from Tier 1 renewable sources, including at least 0.7%
22 derived from solar energy[, and];

23 (II) 2.5% from Tier 2 renewable sources;

24 (III) **0.25% FROM TIER 1 THERMAL RENEWABLE SOURCES;**

25 **AND**

26 (IV) **3.0% FROM TIER 2 THERMAL RENEWABLE SOURCES;**

27 (12) in 2017:

28 (i) 13.1% from Tier 1 renewable sources, including:

- 1 1. at least 0.95% derived from solar energy; and
- 2 2. an amount set by the Commission under § 7-704.2(a)
- 3 of this subtitle, not to exceed 2.5%, derived from offshore wind energy; [and]

4 (ii) 2.5% from Tier 2 renewable sources;

5 **(III) 0.38% FROM TIER 1 THERMAL RENEWABLE SOURCES;**

6 **AND**

7 **(IV) 3.0% FROM TIER 2 THERMAL RENEWABLE SOURCES;**

8 (13) in 2018:

9 (i) 15.8% from Tier 1 renewable sources, including:

10 1. at least 1.4% derived from solar energy; and

11 2. an amount set by the Commission under § 7-704.2(a)

12 of this subtitle, not to exceed 2.5%, derived from offshore wind energy; [and]

13 (ii) 2.5% from Tier 2 renewable sources;

14 **(III) 0.5% FROM TIER 1 THERMAL RENEWABLE SOURCES;**

15 **AND**

16 **(IV) 3.0% FROM TIER 2 THERMAL RENEWABLE SOURCES;**

17 (14) in [2019,] **2019:**

18 **(I) 17.4% from Tier 1 renewable sources, including:**

19 **[(i)] 1. at least 1.75% derived from solar energy; and**

20 **[(ii)] 2. an amount set by the Commission under § 7-704.2(a)**

21 of this subtitle, not to exceed 2.5%, derived from offshore wind energy;

22 **(II) 0.75% FROM TIER 1 THERMAL RENEWABLE SOURCES;**

23 **AND**

24 **(III) 3.0% FROM TIER 2 THERMAL RENEWABLE SOURCES;**

25 (15) in [2020,] **2020:**

1 **(I)** 18% from Tier 1 renewable sources, including:

2 **[(i)]** **1.** at least 2.0% derived from solar energy; and

3 **[(ii)]** **2.** an amount set by the Commission under § 7-704.2(a)
4 of this subtitle, not to exceed 2.5%, derived from offshore wind energy; **AND**

5 **(II)** **1.0% FROM TIER 1 THERMAL RENEWABLE SOURCES;**

6 **(16)** in [2021,] **2021:**

7 **(I)** 18.7% from Tier 1 renewable sources, including:

8 **[(i)]** **1.** at least 2.0% derived from solar energy; and

9 **[(ii)]** **2.** an amount set by the Commission under § 7-704.2(a)
10 of this subtitle, not to exceed 2.5%, derived from offshore wind energy; and

11 **(II)** **1.2% FROM TIER 1 THERMAL RENEWABLE SOURCES;**

12 **(17)** in 2022 [and later,]:

13 **(I)** 20% from Tier 1 renewable sources, including:

14 **[(i)]** **1.** at least 2% derived from solar energy; and

15 **[(ii)]** **2.** an amount set by the Commission under § 7-704.2(a)
16 of this subtitle, not to exceed 2.5%, derived from offshore wind energy; **AND**

17 **(II)** **1.4% FROM TIER 1 THERMAL RENEWABLE SOURCES;**

18 **(18)** **IN 2023:**

19 **(I)** **20% FROM TIER 1 RENEWABLE SOURCES, INCLUDING:**

20 **1.** **AT LEAST 2% DERIVED FROM SOLAR ENERGY; AND**

21 **2.** **AN AMOUNT SET BY THE COMMISSION UNDER §**
22 **7-704.2(A) OF THIS SUBTITLE, NOT TO EXCEED 2.5%, DERIVED FROM OFFSHORE**
23 **WIND ENERGY; AND**

24 **(II)** **1.7% FROM TIER 1 THERMAL RENEWABLE SOURCES;**

25 **AND**

1 **(19) IN 2024 AND LATER:**

2 **(I) 20% FROM TIER 1 RENEWABLE SOURCES, INCLUDING:**

3 **1. AT LEAST 2% DERIVED FROM SOLAR ENERGY; AND**

4 **2. AN AMOUNT SET BY THE COMMISSION UNDER §**
5 **7-704.2(A) OF THIS SUBTITLE, NOT TO EXCEED 2.5%, DERIVED FROM OFFSHORE**
6 **WIND ENERGY; AND**

7 **(II) 2% FROM TIER 1 THERMAL RENEWABLE SOURCES.**

8 (c) Before calculating the number of **RENEWABLE ENERGY** credits **AND**
9 **THERMAL RENEWABLE ENERGY CREDITS** required to meet the percentages
10 established under subsection (b) of this section, an electricity supplier shall exclude
11 from its total retail electricity sales all retail electricity sales described in subsection
12 (a)(2) and (3) of this section.

13 (d) Subject to subsections (a) and (c) of this section and in accordance with [§
14 7-704.2] **§§ 7-704.2 AND 7-705(G)** of this subtitle, an electricity supplier shall meet
15 the renewable energy portfolio standard by accumulating the equivalent amount of
16 renewable energy credits **AND THERMAL RENEWABLE ENERGY CREDITS** that equal
17 the percentages required under this section.

18 7-704.

19 (a) (1) **[Energy] ELECTRICITY** from a Tier 1 renewable source:

20 (i) is eligible for inclusion in meeting the renewable energy
21 portfolio standard regardless of when the generating system or facility was placed in
22 service; and

23 (ii) may be applied to the percentage requirements of the
24 standard for either Tier 1 renewable sources or Tier 2 renewable sources.

25 (2) (i) **[Energy] ELECTRICITY** from a Tier 1 renewable source
26 under [§ 7-701(r)(1),] **§ 7-701(S)(1)**, (5), (9), (10), or (11) of this subtitle is eligible for
27 inclusion in meeting the renewable energy portfolio standard only if the source is
28 connected with the electric distribution grid serving Maryland.

29 (ii) If the owner of a solar generating system in this State
30 chooses to sell solar renewable energy credits from that system, the owner must first
31 offer the credits for sale to an electricity supplier or electric company that shall apply
32 them toward compliance with the renewable energy portfolio standard under § 7-703
33 of this subtitle.

1 (3) [Energy] **ELECTRICITY** from a Tier 1 renewable source under [§
2 7-701(r)(8)] **§ 7-701(S)(8)** of this subtitle is eligible for inclusion in meeting the
3 renewable energy portfolio standard if it is generated at a dam that existed as of
4 January 1, 2004, even if a system or facility that is capable of generating electricity
5 did not exist on that date.

6 (4) [Energy] **ELECTRICITY** from a Tier 2 renewable source under [§
7 7-701(s)] **§ 7-701(U)** of this subtitle is eligible for inclusion in meeting the renewable
8 energy portfolio standard through 2018 if it is generated at a system or facility that
9 existed and was operational as of January 1, 2004, even if the facility or system was
10 not capable of generating electricity on that date.

11 **(5) THERMAL ENERGY FROM A TIER 1 THERMAL RENEWABLE**
12 **SOURCE UNDER § 7-701(T) OF THIS SUBTITLE IS ELIGIBLE FOR INCLUSION IN**
13 **MEETING THE RENEWABLE PORTFOLIO STANDARD IF IT IS GENERATED AT A**
14 **SYSTEM OR FACILITY THAT:**

15 **(I) DELIVERS THE THERMAL ENERGY THROUGH DIRECT**
16 **HEAT, STEAM, HOT WATER, OR OTHER THERMAL FORM FOR A USEFUL THERMAL**
17 **APPLICATION BY AN END-USER IN MARYLAND; AND**

18 **(II) IS PLACED IN SERVICE AFTER JANUARY 1, 2015.**

19 **(6) THERMAL ENERGY FROM A TIER 2 THERMAL RENEWABLE**
20 **SOURCE UNDER § 7-701(V) OF THIS SUBTITLE IS ELIGIBLE FOR INCLUSION IN**
21 **MEETING THE RENEWABLE PORTFOLIO STANDARD THROUGH 2019 IF IT IS**
22 **GENERATED AT A SYSTEM OR FACILITY THAT DELIVERS THE THERMAL ENERGY**
23 **THROUGH DIRECT HEAT, STEAM, OR OTHER THERMAL FORM FOR A USEFUL**
24 **THERMAL APPLICATION BY AN END-USER IN MARYLAND.**

25 (b) On or after January 1, 2004, an electricity supplier may:

26 (1) receive renewable energy credits **AND THERMAL RENEWABLE**
27 **ENERGY CREDITS**; and

28 (2) accumulate renewable energy credits **AND THERMAL**
29 **RENEWABLE ENERGY CREDITS** under this subtitle.

30 (c) (1) This subsection applies only to a generating facility that is placed
31 in service on or after January 1, 2004.

32 (2) (i) On or before December 31, 2005, an electricity supplier shall
33 receive 120% credit toward meeting the renewable energy portfolio standard for
34 energy derived from wind.

1 (ii) After December 31, 2005, and on or before December 31,
2 2008, an electricity supplier shall receive 110% credit toward meeting the renewable
3 energy portfolio standard for energy derived from wind.

4 (3) On or before December 31, 2008, an electricity supplier shall
5 receive 110% credit toward meeting the renewable energy portfolio standard for
6 energy derived from methane under § 7-701(r)(4) of this subtitle.

7 (d) [An electricity supplier shall receive credit toward meeting the renewable
8 energy portfolio standard for electricity derived from the biomass fraction of biomass
9 co-fired with other fuels.

10 (e)] (1) In this subsection, “customer” means:

11 (i) an industrial electric customer that is not on standard offer
12 service; or

13 (ii) a renewable on-site generator.

14 (2) This subsection does not apply to offshore wind renewable energy
15 credits.

16 (3) (i) A customer may independently acquire renewable energy
17 credits **AND THERMAL RENEWABLE ENERGY CREDITS** to satisfy the standards
18 applicable to the customer’s load, including credits created by a renewable on-site
19 generator.

20 (ii) [Credits] **RENEWABLE ENERGY CREDITS AND THERMAL**
21 **RENEWABLE ENERGY CREDITS** that a customer transfers to its electricity supplier to
22 meet the standard and that the electricity supplier relies on in submitting its
23 compliance report may not be resold or retransferred by the customer or by the
24 electricity supplier.

25 (4) A renewable on-site generator may retain or transfer at its sole
26 option any **RENEWABLE ENERGY** credits **AND THERMAL RENEWABLE ENERGY**
27 **CREDITS** created by the renewable on-site generator, including **RENEWABLE**
28 **ENERGY** credits for the portion of its on-site generation from a Tier 1 renewable
29 source or a Tier 2 renewable source that displaces the purchase of electricity by the
30 renewable on-site generator from the grid.

31 (5) A customer that satisfies the standard applicable to the customer’s
32 load under this subsection may not be required to contribute to a compliance fee
33 recovered under § 7-706 of this subtitle.

1 (6) The Commission shall adopt regulations governing the application
2 and transfer of **RENEWABLE ENERGY** credits **AND THERMAL RENEWABLE ENERGY**
3 **CREDITS** under this subsection consistent with federal law.

4 [(f) (1)] **(E)** In order to create a renewable energy credit **OR THERMAL**
5 **RENEWABLE ENERGY CREDIT**, a Tier 1 renewable [source or] **SOURCE**, Tier 2
6 renewable source, **TIER 1 THERMAL RENEWABLE SOURCE, OR TIER 2 THERMAL**
7 **RENEWABLE SOURCE** must substantially comply with all applicable environmental
8 and administrative requirements, including air quality, water quality, solid waste, and
9 right-to-know provisions, permit conditions, and administrative orders.

10 [(2) (i)] **(F)** **(1)** This [paragraph] **SUBSECTION** applies to Tier
11 1 renewable sources that incinerate solid waste.

12 [(ii)] **(2)** At least 80% of the solid waste incinerated at a Tier 1
13 renewable source facility shall be collected from:

14 [1.] **(I)** for areas in Maryland, jurisdictions that
15 achieve the recycling rates required under § 9-505 of the Environment Article; and

16 [2.] **(II)** for other states, jurisdictions for which the
17 electricity supplier demonstrates recycling substantially comparable to that required
18 under § 9-505 of the Environment Article, in accordance with regulations of the
19 Commission.

20 [(iii)] **(3)** An electricity supplier may report **RENEWABLE**
21 **ENERGY** credits received under this paragraph based on compliance by the facility
22 with the percentage requirement of [subparagraph (ii)] **PARAGRAPH (2)** of this
23 [paragraph] **SUBSECTION** during the year immediately preceding the year in which
24 the electricity supplier receives the **RENEWABLE ENERGY** credit to apply to the
25 standard.

26 (g) (1) Energy from a solar water heating system is eligible for inclusion
27 in meeting the renewable energy portfolio standard.

28 (2) A person that owns and operates a solar water heating system
29 shall receive a renewable energy credit equal to the amount of energy, converted from
30 BTUs to kilowatt-hours, that is generated by the system that is used by the person for
31 water heating.

32 (3) The total amount of energy generated and consumed for a
33 nonresidential or commercial solar water heating system shall be measured by an
34 on-site meter that meets the required performance standards of the International
35 Organization of Legal Metrology.

1 (4) The total amount of energy generated and consumed by a
2 residential solar water heating system shall be:

3 (i) measured by a meter that meets the required standards of
4 the International Organization of Legal Metrology; or

5 (ii) 1. measured by the Solar Ratings and Certification
6 Corporation's OG-300 thermal performance rating for the system or an equivalent
7 certification that the Commission approves in consultation with the Administration;
8 and

9 2. certified to the OG-300 standard of the Solar Ratings
10 and Certification Corporation or an equivalent certification body that the Commission
11 approves in consultation with the Administration.

12 (5) A residential solar water heating system shall be installed in
13 accordance with applicable State and local plumbing codes.

14 (6) A residential solar water heating system may not produce more
15 than five solar renewable energy credits in any 1 year.

16 (h) (1) **[Energy] THERMAL ENERGY** from a geothermal heating and
17 cooling system is eligible for inclusion in meeting the renewable energy portfolio
18 standard.

19 (2) **[A person shall receive a renewable energy credit equal to the**
20 **amount of energy, converted from BTUs to kilowatt-hours, that is generated by a**
21 **geothermal heating and cooling system for space heating and cooling or water heating**
22 **if the person:**

23 (i) owns and operates the system;

24 (ii) leases and operates the system; or

25 (iii) contracts with a third party who owns and operates the
26 system.

27 (3) To determine the **[energy savings of a] ANNUAL AMOUNT OF**
28 **THERMAL RENEWABLE ENERGY CREDITS AWARDED FOR A RESIDENTIAL**
29 **geothermal heating and cooling system [for a residence], the Commission shall:**

30 (i) identify available Internet-based energy consumption
31 calculators developed by the geothermal heating and cooling industry;

32 (ii) collect the following data provided in the renewable energy
33 credit application that:

1 1. describes the name of the applicant and the address
2 at which the geothermal heating and cooling system is installed; and

3 2. provides the annual BTU energy savings attributable
4 to home heating, cooling, and water heating; and

5 (iii) [in determining the annual amount of renewable energy
6 credits awarded for the geothermal heating and cooling system,] convert the annual
7 [BTUs into annual megawatt hours] **BTU ENERGY SAVINGS INTO THERMAL**
8 **RENEWABLE ENERGY CREDITS.**

9 **[(4)] (3)** To determine the [energy savings of] **ANNUAL AMOUNT OF**
10 **THERMAL RENEWABLE ENERGY CREDITS AWARDED FOR** a nonresidential
11 geothermal heating and cooling system, the Commission shall:

12 (i) use the geothermal heating and cooling engineering
13 technical system designs provided with the **THERMAL** renewable energy credit
14 application; and

15 (ii) in determining the annual amount of **THERMAL** renewable
16 energy credits awarded for the geothermal heating and cooling system, convert the
17 annual [BTUs into annual megawatt hours] **BTU ENERGY SAVINGS INTO THERMAL**
18 **RENEWABLE ENERGY CREDITS.**

19 **[(5)] (4)** A geothermal heating and cooling system shall be installed
20 in accordance with applicable State well construction and local building code
21 standards.

22 (i) (1) [Energy from a thermal] **ENERGY FROM AN ANIMAL MANURE**
23 biomass system is eligible for inclusion in meeting the renewable energy portfolio
24 standard.

25 (2) [(i) A person that owns and operates a thermal biomass system
26 that uses anaerobic digestion is eligible to receive a renewable energy credit.

27 (ii) **A] BEFORE RECEIVING THERMAL RENEWABLE ENERGY**
28 **CREDITS,** A person that owns and operates [a thermal] **AN ANIMAL MANURE** biomass
29 system that uses a thermochemical process [is eligible to receive a renewable energy
30 credit if the person demonstrates] **SHALL DEMONSTRATE** to the Maryland
31 Department of the Environment that the operation of the [thermal] **ANIMAL MANURE**
32 biomass system:

33 [1.] **(I)** is not significantly contributing to local or
34 regional air quality impairments; and

1 [2.] (II) will substantially decrease emissions of oxides
2 of nitrogen beyond that achieved by a direct burn combustion unit through the use of
3 precombustion techniques, combustion techniques, or postcombustion techniques.

4 (3) [A person that is eligible to receive a renewable energy credit
5 under paragraph (2) of this subsection shall receive a renewable energy credit equal to
6 the amount of energy, converted from BTUs to kilowatt–hours, that is generated by
7 the thermal biomass system and used on site.

8 (4)] The total amount of energy generated and consumed for a
9 residential, nonresidential, or commercial [thermal] ANIMAL MANURE biomass
10 system shall be measured by an on–site meter that meets the required performance
11 standards established by the Commission.

12 [[5)] (4) The Commission shall adopt regulations for the metering,
13 verification, and reporting of the output of [thermal] ANIMAL MANURE biomass
14 systems.

15 **(J) (1) THERMAL ENERGY FROM A WOODY BIOMASS SYSTEM IS
16 ELIGIBLE FOR INCLUSION IN MEETING THE RENEWABLE ENERGY PORTFOLIO
17 STANDARD IF THE WOODY BIOMASS SYSTEM:**

18 **(I) ACHIEVES A NET SYSTEM EFFICIENCY OF 65% OR
19 GREATER ON AN ANNUAL BASIS; AND**

20 **(II) COMPLIES WITH ALL APPLICABLE STATE AND FEDERAL
21 LAWS AND REGULATIONS.**

22 **(2) THE COMMISSION SHALL ADOPT REGULATIONS FOR THE
23 METERING, VERIFICATION, AND REPORTING OF THE OUTPUT OF WOODY
24 BIOMASS SYSTEMS.**

25 **(3) WHEN ADOPTING REGULATIONS UNDER PARAGRAPH (2) OF
26 THIS SUBSECTION, THE COMMISSION SHALL CONSIDER METERING AND
27 VERIFICATION METHODS THAT ARE TECHNICALLY FEASIBLE FOR COMMERCIAL,
28 INDUSTRIAL, AND RESIDENTIAL CUSTOMERS.**

29 **(4) AN INTERESTED PARTY MAY PETITION THE COMMISSION TO
30 ADOPT NEW METERING AND VERIFICATION METHODS NOT AUTHORIZED BY A
31 REGULATION ADOPTED UNDER PARAGRAPH (2) OF THIS SUBSECTION.**

32 **(5) A WOODY BIOMASS SYSTEM ELIGIBLE FOR INCLUSION IN
33 MEETING THE RENEWABLE ENERGY PORTFOLIO STANDARD SHALL RECEIVE**

1 THERMAL RENEWABLE ENERGY CREDITS ONLY FOR THE PORTION OF THE
2 THERMAL ENERGY GENERATED BY WOODY BIOMASS.

3 (k) THE OWNER OF A GEOTHERMAL HEATING AND COOLING SYSTEM OR
4 AN ANIMAL MANURE BIOMASS SYSTEM THAT WAS REGISTERED WITH THE
5 COMMISSION TO RECEIVE RENEWABLE ENERGY CREDITS ELIGIBLE FOR
6 INCLUSION IN THE RENEWABLE PORTFOLIO STANDARD AS A TIER 1 RENEWABLE
7 SOURCE BEFORE OCTOBER 1, 2014, MAY ELECT TO:

8 (1) HAVE THE SYSTEM REMAIN REGISTERED AS A TIER 1
9 RENEWABLE SOURCE THAT GENERATES RENEWABLE ENERGY CREDITS; OR

10 (2) REREGISTER THE SYSTEM AS A TIER 1 THERMAL RENEWABLE
11 SOURCE THAT GENERATES THERMAL RENEWABLE ENERGY CREDITS.

12 (l) A SYSTEM THAT GENERATES THERMAL ENERGY USING QUALIFIED
13 BIOMASS ELIGIBLE FOR INCLUSION IN THE RENEWABLE ENERGY PORTFOLIO
14 STANDARD SHALL RECEIVE THERMAL RENEWABLE ENERGY CREDITS ONLY FOR
15 THE PORTION OF THE THERMAL ENERGY GENERATED BY QUALIFIED BIOMASS.

16 7-705.

17 (a) Each electricity supplier shall submit a report to the Commission each
18 year in a form and by a date specified by the Commission that:

19 (1) demonstrates that the electricity supplier has complied with the
20 applicable renewable energy portfolio standard under § 7-703 of this subtitle and
21 includes the submission of the required amount of renewable energy credits AND
22 THERMAL RENEWABLE ENERGY CREDITS; or

23 (2) demonstrates the amount of electricity sales by which the
24 electricity supplier failed to meet the applicable renewable energy portfolio standard.

25 (b) (1) This subsection does not apply to a shortfall from the required Tier
26 1 renewable sources that is to be derived from offshore wind energy.

27 (2) If an electricity supplier fails to comply with the **ELECTRICITY**
28 **COMPONENT OF THE** renewable energy portfolio standard for the applicable year, the
29 electricity supplier shall pay into the Maryland Strategic Energy Investment Fund
30 established under § 9-20B-05 of the State Government Article:

31 (i) except as provided in item (ii) of this paragraph, a
32 compliance fee of:

1 1. 4 cents for each kilowatt-hour of shortfall from
2 required Tier 1 renewable sources other than the shortfall from the required Tier 1
3 renewable sources that is to be derived from solar energy;

4 2. the following amounts for each kilowatt-hour of
5 shortfall from required Tier 1 renewable sources that is to be derived from solar
6 energy:

7 A. 45 cents in 2008;

8 B. 40 cents in 2009 through 2014;

9 C. 35 cents in 2015 and 2016;

10 D. 20 cents in 2017 and 2018;

11 E. 15 cents in 2019 and 2020;

12 F. 10 cents in 2021 and 2022; and

13 G. 5 cents in 2023 and later; and

14 3. 1.5 cents for each kilowatt-hour of shortfall from
15 required Tier 2 renewable sources; or

16 (ii) for industrial process load:

17 1. for each kilowatt-hour of shortfall from required Tier
18 1 renewable sources, a compliance fee of:

19 A. 0.8 cents in 2006, 2007, and 2008;

20 B. 0.5 cents in 2009 and 2010;

21 C. 0.4 cents in 2011 and 2012;

22 D. 0.3 cents in 2013 and 2014;

23 E. 0.25 cents in 2015 and 2016; and

24 F. except as provided in paragraph (3) of this subsection,
25 0.2 cents in 2017 and later; and

26 2. nothing for any shortfall from required Tier 2
27 renewable sources.

1 (3) For industrial process load, the compliance fee for each
2 kilowatt-hour of shortfall from required Tier 1 renewable sources is:

3 (i) 0.1 cents in any year during which suppliers are required to
4 purchase ORECs under § 7-704.2 of this subtitle; and

5 (ii) nothing for the year following any year during which, after
6 final calculations, the net rate impact per megawatt-hour from qualified offshore wind
7 projects exceeded \$1.65 in 2012 dollars.

8 **(G) (1) ON OR BEFORE MARCH 1 OF EACH YEAR, THE COMMISSION**
9 **SHALL PUBLISH ON ITS WEB SITE:**

10 **(I) WHETHER SUFFICIENT THERMAL RENEWABLE ENERGY**
11 **CREDITS ARE AVAILABLE ON THE ELECTRONIC SYSTEM TO FULFILL THE**
12 **OBLIGATION SPECIFIED IN § 7-703(B) OF THIS SUBTITLE FOR EACH**
13 **ELECTRICITY SUPPLIER DURING THE PREVIOUS CALENDAR YEAR; AND**

14 **(II) IF INSUFFICIENT THERMAL RENEWABLE ENERGY**
15 **CREDITS ARE AVAILABLE UNDER SUBPARAGRAPH (I) OF THIS PARAGRAPH, A**
16 **REDUCED OBLIGATION THAT ADJUSTS THE OBLIGATION SPECIFIED IN §**
17 **7-703(B) OF THIS SUBTITLE PROPORTIONALLY BASED ON THE NUMBER OF**
18 **THERMAL RENEWABLE ENERGY CREDITS AVAILABLE ON THE ELECTRONIC**
19 **SYSTEM COMPARED TO THE NUMBER OF THERMAL RENEWABLE ENERGY**
20 **CREDITS ELECTRICITY SUPPLIERS WOULD HAVE BEEN REQUIRED TO PURCHASE**
21 **UNDER THE FULL OBLIGATION.**

22 **(2) ON OR BEFORE APRIL 1 OF EACH YEAR, AN ELECTRICITY**
23 **SUPPLIER SHALL:**

24 **(I) SUBMIT THERMAL RENEWABLE ENERGY CREDITS UP TO**
25 **THE ELECTRICITY SUPPLIER'S OBLIGATION AS DETERMINED BY THE**
26 **COMMISSION UNDER PARAGRAPH (1) OF THIS SUBSECTION; OR**

27 **(II) PAY A COMPLIANCE FEE UNDER PARAGRAPH (4) OF**
28 **THIS SUBSECTION FOR EACH THERMAL RENEWABLE ENERGY CREDIT**
29 **SHORTFALL IN MEETING THE ELECTRICITY SUPPLIER'S OBLIGATION AS**
30 **DETERMINED BY THE COMMISSION UNDER PARAGRAPH (1) OF THIS**
31 **SUBSECTION.**

32 **(3) AN ELECTRICITY SUPPLIER MAY NOT BE REQUIRED TO**
33 **COMPLY WITH THE OBLIGATION SPECIFIED IN § 7-703(B) FOR THERMAL**
34 **RENEWABLE ENERGY CREDITS IF THERE ARE NO THERMAL RENEWABLE**
35 **ENERGY CREDITS AVAILABLE ON MARCH 1 THROUGH THE TRADING SYSTEM**

1 ESTABLISHED UNDER § 7-708 OF THIS SUBTITLE DURING THE PREVIOUS
2 CALENDAR YEAR.

3 (4) AN ELECTRICITY SUPPLIER SHALL PAY INTO THE MARYLAND
4 STRATEGIC ENERGY INVESTMENT FUND ESTABLISHED UNDER § 9-20B-05 OF
5 THE STATE GOVERNMENT ARTICLE THE FOLLOWING AMOUNTS FOR EACH
6 THERMAL RENEWABLE ENERGY CREDIT SHORTFALL THAT OCCURS IN
7 ACCORDANCE WITH PARAGRAPH (2) OF THIS SUBSECTION:

8 (I) FOR EACH 3,412 BTU SHORTFALL IN THERMAL
9 RENEWABLE ENERGY CREDITS FROM TIER 1 THERMAL RENEWABLE SOURCES:

- 10 1. 3 CENTS IN 2015;
- 11 2. 2.75 CENTS IN 2016;
- 12 3. 2.5 CENTS IN 2017;
- 13 4. 2.25 CENTS IN 2018; AND
- 14 5. 2 CENTS IN 2019 AND LATER; AND

15 (II) FOR EACH 3,412 BTU SHORTFALL IN THERMAL
16 RENEWABLE ENERGY CREDITS FROM TIER 2 THERMAL RENEWABLE SOURCES:

- 17 1. 0.025 CENTS IN 2015;
- 18 2. 0.02 CENTS IN 2016;
- 19 3. 0.015 CENTS IN 2017;
- 20 4. 0.01 CENTS IN 2018; AND
- 21 5. 0.005 CENTS IN 2019.

22 7-708.

23 (a) (1) The Commission shall establish and maintain a market-based
24 renewable electricity trading system to facilitate the creation and transfer of
25 renewable energy credits AND THERMAL RENEWABLE ENERGY CREDITS.

26 (2) To the extent practicable, the trading system shall be consistent
27 with and operate in conjunction with the trading system developed by PJM
28 Interconnection, Inc., if available.

1 (3) The Commission may contract with a for-profit or a nonprofit
2 entity to assist in the administration of the electricity trading system required under
3 paragraph (1) of this subsection.

4 (b) (1) The system shall include a registry of pertinent information
5 regarding all:

6 (i) available renewable energy credits **AND THERMAL**
7 **RENEWABLE ENERGY CREDITS**; and

8 (ii) renewable energy credit **AND THERMAL RENEWABLE**
9 **ENERGY CREDIT** transactions among electricity suppliers in the State, including:

10 1. the creation and application of renewable energy
11 credits **AND THERMAL RENEWABLE ENERGY CREDITS**;

12 2. the number of renewable energy credits **AND**
13 **THERMAL RENEWABLE ENERGY CREDITS** sold or transferred; and

14 3. the price paid for the sale or transfer of renewable
15 energy credits **AND THERMAL RENEWABLE ENERGY CREDITS**.

16 (2) (i) The registry shall provide current information to electricity
17 suppliers and the public on the status of renewable energy credits **AND THERMAL**
18 **RENEWABLE ENERGY CREDITS** created, sold, or transferred in the State.

19 (ii) Registry information shall be available by computer network
20 access through the Internet.

21 SECTION 2. AND BE IT FURTHER ENACTED, That this Act shall take effect
22 October 1, 2014.