HOUSE BILL 378

C5 5lr2363

HB 747/14 - ECM

By: Delegate K. Young

Introduced and read first time: February 6, 2015

Assigned to: Economic Matters

A BILL ENTITLED

1 AN ACT concerning

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Renewable Energy Portfolio Standard - Qualifying Biomass

3 FOR the purpose of limiting the eligibility of qualifying biomass as a Tier 1 renewable 4 source for the purposes of the renewable energy portfolio standard to qualifying 5 biomass used at a generation unit that started commercial operation on or after a 6 certain date and that achieves a certain total system efficiency; providing that, before 7 a certain date, certain qualifying biomass used at a certain generation unit that 8 started commercial operation on or before a certain date and achieved a certain certification on or before a certain date is eligible as a Tier 1 renewable source; 9 providing that qualifying biomass used at a certain generation unit that started 10 11 commercial operation on or before a certain date or that achieves not more than a 12 certain percentage of total system efficiency is eligible as a Tier 2 renewable source; 13 providing that, on or after a certain date, certain qualifying biomass used at a certain 14 generation station that started commercial operation on or before a certain date and 15 achieved a certain certification on or before a certain date is eligible as a Tier 2 16 renewable source; requiring the Governor, beginning in a certain fiscal year and each 17 fiscal year thereafter and under certain circumstances, to appropriate funds in the 18 State budget from the Strategic Energy Investment Fund or other funding sources 19 to the Maryland Energy Administration in a certain amount based on a certain 20 calculation; requiring the Administration to issue a certain grant to a certain facility 21 under certain circumstances; providing for the application of this Act; defining 22 certain terms; altering certain terms; making a conforming change; and generally 23 relating to the renewable portfolio standard for qualifying biomass.

BY repealing and reenacting, with amendments,

Article – Public Utilities

26 Section 7–701 and 7–704(a)

27 Annotated Code of Maryland

28 (2010 Replacement Volume and 2013 Supplement)

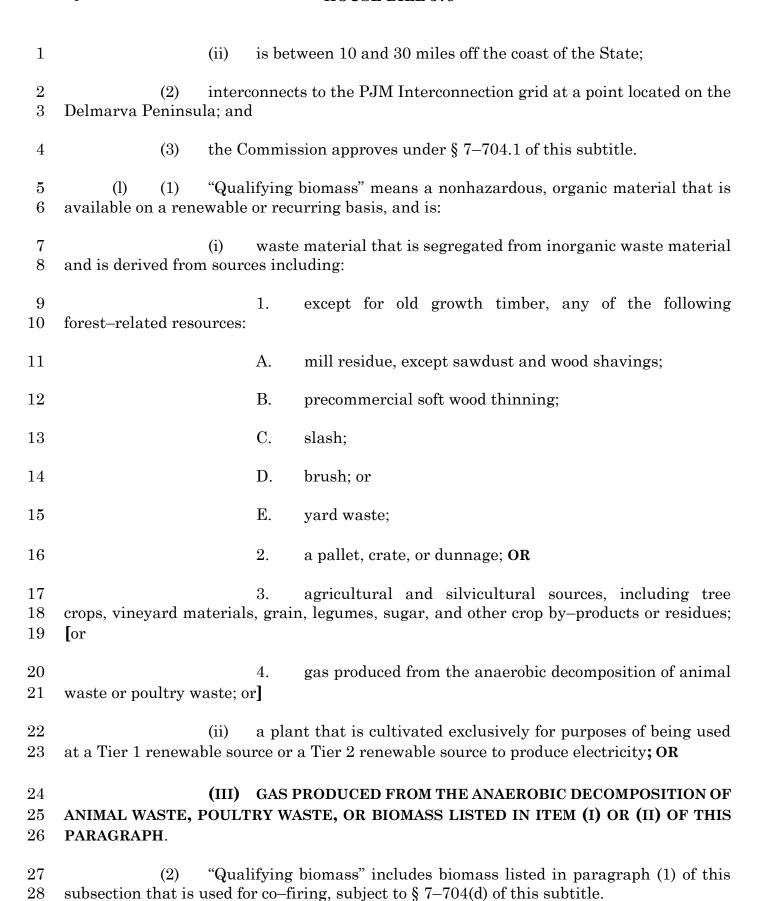


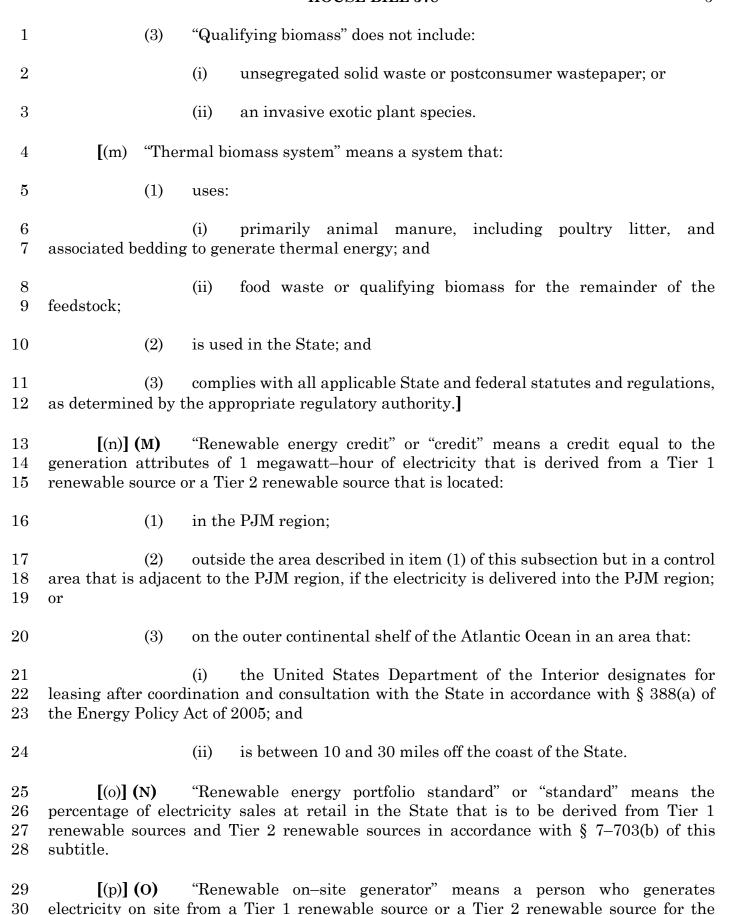
SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF MARYLAND, 2 That the Laws of Maryland read as follows:

3 Article – Public Utilities

- 4 7–701.
- 5 (a) In this subtitle the following words have the meanings indicated.
- 6 (b) "Administration" means the Maryland Energy Administration.
- 7 (B-1) "FUEL INPUT" MEANS THE HIGHER HEATING VALUE OF THE INPUT FUEL
 8 TYPE, MEASURED IN BTU/LB. BASED ON THE STANDARDIZED HEATING VALUE OF
 9 THE FUEL TYPE, MULTIPLIED BY THE ANNUAL FUEL USED IN AS-DELIVERED TONS,
 10 MULTIPLIED BY 2,000.
- 11 (c) "Fund" means the Maryland Strategic Energy Investment Fund established 12 under § 9–20B–05 of the State Government Article.
- 13 (d) "Geothermal heating and cooling system" means a system that:
- 14 (1) exchanges thermal energy from groundwater or a shallow ground 15 source to generate thermal energy through a geothermal heat pump or a system of 16 geothermal heat pumps interconnected with any geothermal extraction facility that is:
- 17 (i) a closed loop or a series of closed loop systems in which fluid is 18 permanently confined within a pipe or tubing and does not come in contact with the outside 19 environment; or
- 20 (ii) an open loop system in which ground or surface water is 21 circulated in an environmentally safe manner directly into the facility and returned to the 22 same aguifer or surface water source;
- 23 (2) meets or exceeds the current federal Energy Star product specification 24 standards;
- 25 (3) replaces or displaces inefficient space or water heating systems whose 26 primary fuel is electricity or a nonnatural gas fuel source;
- 27 (4) replaces or displaces inefficient space cooling systems that do not meet 28 federal Energy Star product specification standards;
- 29 (5) is manufactured, installed, and operated in accordance with applicable 30 government and industry standards; and
- 31 (6) does not feed electricity back to the grid.

- 1 "Industrial process load" means the consumption of electricity by a 2 manufacturing process at an establishment classified in the manufacturing sector under 3 the North American Industry Classification System, Codes 31 through 33. "Offshore wind energy" means energy generated by a qualified offshore wind 4 (f) 5 project. 6 "Old growth timber" means timber from a forest: (g) 7 at least 5 acres in size with a preponderance of old trees, of which the 8 oldest exceed at least half the projected maximum attainable age for the species; and 9 that exhibits several of the following characteristics: (2) 10 (i) shade—tolerant species are present in all age and size classes; 11 (ii) randomly distributed canopy gaps are present; 12 a high degree of structural diversity characterized by multiple (iii) growth layers reflecting a broad spectrum of ages is present; 13 14 (iv) an accumulation of dead wood of varying sizes and stages of decomposition accompanied by decadence in live dominant trees is present; and 15 16 (v) pit and mound topography can be observed. "Offshore wind renewable energy credit" or "OREC" means a renewable 17 (h) energy credit equal to the generation attributes of 1 megawatt-hour of electricity that is 18 19 derived from offshore wind energy. 20 (i) "PJM region" means the control area administered by the PJM 21Interconnection, as the area may change from time to time. 22 "Poultry litter" means the fecal and urinary excretions of poultry, including (i) wood shavings, sawdust, straw, rice hulls, and other bedding material for the disposition 23 24of manure. 25"Qualified offshore wind project" means a wind turbine electricity generation facility, including the associated transmission-related interconnection facilities and 2627 equipment, that: 28is located on the outer continental shelf of the Atlantic Ocean in an area (1) 29 that:
- 30 (i) the United States Department of the Interior designates for 31 leasing after coordination and consultation with the State in accordance with § 388(a) of 32 the Energy Policy Act of 2005; and





person's own use.

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1	[(q)] (P)	(1)	"Solar water heating system" means a system that:
2 3 4			consists of glazed liquid-type flat-plate or tubular solar ting solar thermal collectors as defined and certified to the Solar Ratings and Certification Corporation;
5 6	water; and	(ii)	generates energy using solar radiation for the purpose of heating
7		(iii)	does not feed electricity back to the electric grid.
8 9	(2 energy using so	•	ar water heating system" does not include a system that generates tion for the sole purpose of heating a hot tub or swimming pool.
10	(Q) "T	ΓHERMAI	L BIOMASS SYSTEM" MEANS A SYSTEM THAT:
11	(1) USES	S:
12 13	AND ASSOCIA	(I) FED BEDI	PRIMARILY ANIMAL MANURE, INCLUDING POULTRY LITTER, DING TO GENERATE THERMAL ENERGY; AND
14 15	REMAINDER C	(II) OF THE FE	FOOD WASTE OR QUALIFYING BIOMASS FOR THE EEDSTOCK;
16	(2	a) is us	SED IN THE STATE; AND
17 18 19	(3 AND REGULA AUTHORITY.	,	PLIES WITH ALL APPLICABLE STATE AND FEDERAL STATUTES AS DETERMINED BY THE APPROPRIATE REGULATORY
20 21	(r) "T sources:	ier 1 rene	ewable source" means one or more of the following types of energy
22 23	(1 water heating s	,	energy, including energy from photovoltaic technologies and solar
24	(2) wind	·
25 26	(3 THIS SECTION		fying biomass LISTED IN SUBSECTION (L)(1)(I) AND (II) OF A GENERATION UNIT THAT:
27 28	1, 2005; AND	(I)	STARTED COMMERCIAL OPERATION ON OR AFTER JANUARY

1		(II)	ACHIEVES A TOTAL SYSTEM EFFICIENCY OF 65% OR MORE;
2 3	(4) landfill or waster		ane from the anaerobic decomposition of organic materials in a eatment plant;
4 5	(5) from or thermal	_	ermal, including energy generated through geothermal exchange voided by, groundwater or a shallow ground source;
6 7	(6) differences;	ocean	, including energy from waves, tides, currents, and thermal
8 9	(7) under item (3) or		l cell that produces electricity from a Tier 1 renewable source is subsection;
10 11	(8) that is licensed o		all hydroelectric power plant of less than 30 megawatts in capacity t from licensing by the Federal Energy Regulatory Commission;
12	(9)	poult	ry litter-to-energy;
13	(10)	waste	e-to-energy;
14	(11)	refuse	e-derived fuel; [and]
15	(12)	thern	nal energy from a thermal biomass system;
16 17	(13 SECTION; AND) QUAI	IFYING BIOMASS LISTED IN SUBSECTION (L)(1)(III) OF THIS
18 19	•		ORE JANUARY 1, 2018, QUALIFYING BIOMASS LISTED IN AND (II) OF THIS SECTION USED AT A GENERATION UNIT THAT:
20 21	DECEMBER 31,	(I) 2004; A	STARTED COMMERCIAL OPERATION ON OR BEFORE ND
22 23	BEFORE DECEM	(II) IBER 31	ACHIEVED CERTIFICATION WITH THE COMMISSION ON OR , 2005 .
24 25	(s) "Tie OF ENERGY SOU		wable source" means ONE OR MORE OF THE FOLLOWING TYPES
26	(1)	hydro	electric power other than pump storage generation;
27 28	(2) THIS SECTION U		LIFYING BIOMASS LISTED IN SUBSECTION (L)(1)(I) AND (II) OF A GENERATION UNIT THAT:

- 8 1 STARTED COMMERCIAL OPERATION ON OR BEFORE (I)2 **DECEMBER 31, 2004; OR** 3 (II) ACHIEVES A TOTAL SYSTEM EFFICIENCY OF NOT MORE 4 **THAN 65%; AND** 5 **(3)** ON OR AFTER JANUARY 1, 2018, QUALIFYING BIOMASS LISTED IN 6 SUBSECTION (L)(1)(I) AND (II) OF THIS SECTION USED AT A GENERATION UNIT THAT: 7 **(I)** STARTED COMMERCIAL OPERATION ON OR BEFORE 8 DECEMBER 31, 2004; AND 9 ACHIEVED CERTIFICATION WITH THE COMMISSION ON OR (II)10 BEFORE DECEMBER 31, 2005. "TOTAL SYSTEM EFFICIENCY" MEANS THE SUM OF THE NET USEFUL 11 12 ELECTRIC ENERGY OUTPUT MEASURED IN BTUS AND THE NET USEFUL THERMAL ENERGY OUTPUT MEASURED IN BTUS DIVIDED BY THE TOTAL FUEL INPUT. 13 14 (U) **(1)** "USEFUL THERMAL ENERGY OUTPUT" MEANS ENERGY: 15 **(I)** IN THE FORM OF DIRECT HEAT, STEAM, HOT WATER, OR 16 OTHER THERMAL FORM THAT IS USED IN PRODUCTION AND BENEFICIAL MEASURES FOR HEATING, COOLING, HUMIDITY CONTROL, PROCESS USE, OR OTHER VALID 17 THERMAL END USE ENERGY REQUIREMENTS; AND 18 19 (II) FOR WHICH FUEL OR ELECTRICITY WOULD OTHERWISE BE 20 CONSUMED. "USEFUL THERMAL ENERGY OUTPUT" DOES NOT INCLUDE 21**(2)** 22 THERMAL ENERGY USED FOR THE PURPOSE OF DRYING OR REFINING BIOMASS 23FUEL. 7 - 704. 2425 (a) (1) Energy from a Tier 1 renewable source: 26 EXCEPT FOR QUALIFYING BIOMASS, is eligible for inclusion in 27 meeting the renewable energy portfolio standard regardless of when the generating system
- 29 may be applied to the percentage requirements of the standard 30 for either Tier 1 renewable sources or Tier 2 renewable sources.

or facility was placed in service; and

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- 1 (2) (i) Energy from a Tier 1 renewable source under § 7–701(r)(1), (5), 2 (9), (10), or (11) of this subtitle is eligible for inclusion in meeting the renewable energy portfolio standard only if the source is connected with the electric distribution grid serving 4 Maryland.
 - (ii) If the owner of a solar generating system in this State chooses to sell solar renewable energy credits from that system, the owner must first offer the credits for sale to an electricity supplier or electric company that shall apply them toward compliance with the renewable energy portfolio standard under § 7–703 of this subtitle.
- 9 (3) Energy from a Tier 1 renewable source under § 7–701(r)(8) of this subtitle is eligible for inclusion in meeting the renewable energy portfolio standard if it is generated at a dam that existed as of January 1, 2004, even if a system or facility that is capable of generating electricity did not exist on that date.
- 13 (4) Energy from a Tier 2 renewable source under § [7–701(s)] 14 **7–701(S)(1)** of this subtitle is eligible for inclusion in meeting the renewable energy portfolio standard through 2018 if it is generated at a system or facility that existed and was operational as of January 1, 2004, even if the facility or system was not capable of generating electricity on that date.

SECTION 2. AND BE IT FURTHER ENACTED, That:

- 19 (a) This Act shall be construed to apply only prospectively and may not be applied 20 or interpreted to have any effect on or application to the following:
- 21 (1) contracts entered into for the purchase of renewable energy credits 22 before January 1, 2015;
- 23 (2) renewable energy credits included in PJM's Generator Attributes 24 Tracking system that:
- 25 (i) were generated before the effective date of this Act by a facility 26 that qualified as a Tier 1 energy source before the effective date of this Act; or
- 27 (ii) are generated by a facility that qualified as a Tier 1 energy source 28 before the effective date of this Act, but were purchased by an electricity supplier before 29 the effective date of this Act; and
- 30 (3) renewable energy credits purchased before March 1, 2015, as part of a 31 Request for Proposals notice issued before the effective date of this Act.
- 32 (b) This Act shall apply to all contracts entered into, renewed, extended, or 33 substantially amended for the purchase of renewable energy credits after the effective date 34 of this Act.

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1 (a) Beginning in the first fiscal year in which final data is available for calendar 2 year 2018 renewable energy portfolio standard compliance and each fiscal year thereafter, 3 the Governor shall appropriate funds in the State budget from the Strategic Energy 4 Investment Fund or other funding sources, as determined by the Governor, to the Maryland 5 Energy Administration in an amount calculated by:

(1) multiplying:

- 7 (i) the average annual quantity of the sum of Tier 1 and Tier 2 8 renewable energy credits produced from January 1, 2013, to December 31, 2018, by a 9 facility located in Western Maryland that began commercial operation on or before 10 December 31, 2004, and achieved certification with the Public Service Commission on or 11 before December 31, 2005; by
- 12 (ii) the average selling price of nonsolar Tier 1 renewable energy 13 credits retiered for Maryland renewable energy portfolio compliance in the most recent 14 calendar year in which final data is available; and
 - (2) subtracting any revenues received in that same calendar year from the sale of Tier 1 or Tier 2 renewable energy credits produced by a facility referenced under item (1)(i) of this subsection, as verified by the Public Service Commission.
 - (b) An owner of a facility referenced under subsection (a)(1)(i) of this section shall make all reasonable efforts to maximize the revenue received for the sale of Tier 1 and Tier 2 renewable energy credits produced by the facility in any markets in which the renewable energy credits are eligible for sale.
 - (c) The appropriation under this section shall be made only in a fiscal year in which a facility referenced under subsection (a)(1)(i) of this section, the manufacture of final paper products by a facility referenced under the most recent calendar year in which final data for Maryland renewable energy portfolio standard compliance is available, is at least 25% of the tonnage produced in calendar year 2012.
- 27 (d) The Administration shall issue a grant to an owner of a facility referenced under subsection (a)(1)(i) of this section for the amount of any appropriation made under subsection (a) of this section.
- 30 SECTION 4. AND BE IT FURTHER ENACTED, That this Act shall take effect 31 October 1, 2015.