HOUSE BILL 1007

C5, M5 (1lr1460)

ENROLLED BILL

— Economic Matters/Finance —

Introduced by Delegate Charkoud	ian	
Read and	Examin	ned by Proofreaders:
		Proofreader.
		Proofreader.
Sealed with the Great Seal and	present	ted to the Governor, for his approval this
day of	at	o'clock,M.
		Speaker.
	СНАРТІ	ER
AN ACT concerning		
Renewable Energy Portfolio S		d and Geothermal Heating and Cooling stems
require a certain percentage of derived from certain geothers percentage of energy required cooling systems to be from senergy from certain geotherm in meeting the renewable energy that certain geothermal heat meeting the renewable energy from the percentage of th	f energy mal heat d to be o ystems i al heatir rgy port on shall ing and gy portfo	e energy portfolio standard in certain years to a from Tier 1 renewable sources each year to be sting and cooling systems; requiring a certain derived from certain geothermal heating and installed on certain property; clarifying that and and cooling systems is eligible for inclusion the standard; altering the methods by which determine certain energy savings; specifying a cooling systems are eligible for inclusion in folio standard if the company installing the requiring the Public Service Commission to

EXPLANATION: CAPITALS INDICATE MATTER ADDED TO EXISTING LAW.

[Brackets] indicate matter deleted from existing law.

<u>Underlining</u> indicates amendments to bill.

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2 3

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Strike out indicates matter stricken from the bill by amendment or deleted from the law by amendment.

adopt certain regulations; providing for regulation and enforcement of certain

Italics indicate opposite chamber/conference committee amendments.



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requirements by the Department of Labor; clarifying who is eligible to receive certain 1 2 renewable energy credits under certain circumstances; requiring certain electricity 3 suppliers to pay certain compliance fees into the Maryland Strategic Energy 4 Investment Fund under certain circumstances; requiring certain money in the Fund to be used only in a certain manner; requiring the Commission to report to the 5 6 General Assembly on or before certain dates on the status of the implementation of 7 geothermal heating and cooling systems in the State; requiring the Maryland Energy 8 Administration to conduct a certain study on geothermal heating and cooling 9 systems; providing for the content of the study; authorizing the Administration to 10 contract with a third party to conduct the study; requiring the Administration to 11 submit the results of the study to the Geothermal Energy Workgroup on or before a 12 certain date; establishing the Workgroup; providing for the composition, chair, and staffing of the Workgroup; prohibiting a member of the Workgroup from receiving 13 14 certain compensation, but authorizing the reimbursement of certain expenses; 15 requiring the Workgroup to study and make recommendations regarding certain 16 matters; requiring the Administration, in consultation with the Workgroup, to 17 develop recommendations for a certain incentive structure; requiring the Director of 18 the Administration, or the Director's designee, to report certain results, findings, and 19 recommendations to the General Assembly on or before a certain date; providing that 20 existing obligations or contract rights may not be impaired by this Act; defining 21 certain terms; and generally relating to the renewable energy portfolio standard and 22geothermal heating and cooling systems.

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23
    BY repealing and reenacting, without amendments.
24
           Article – Public Utilities
25
           Section 7–701(a) through (c) and (s)
           Annotated Code of Maryland
26
27
           (2020 Replacement Volume and 2020 Supplement)
28
    BY repealing and reenacting, with amendments,
29
           Article – Public Utilities
           Section 7–701(d), 7–703(b), 7–704(h), \frac{7-705(b)}{and}, and 7–712 and 7–705(b)
30
31
           Annotated Code of Maryland
           (2020 Replacement Volume and 2020 Supplement)
32
    BY adding to
33
           Article – Public Utilities
34
           Section 7–701(e–1) and (i–1), 7–703(f), and 7–705(b–1)
35
           Annotated Code of Maryland
36
37
           (2020 Replacement Volume and 2020 Supplement)
38
    BY repealing and reenacting, without amendments,
39
           Article – State Government
40
           Section 9-20B-05(a) and (b)
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(2014 Replacement Volume and 2020 Supplement)

Annotated Code of Maryland

1 2 3 4 5	BY adding to Article – State Government Section 9–20B–05(i–1) Annotated Code of Maryland (2014 Replacement Volume and 2020 Supplement)
6 7	SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF MARYLAND, That the Laws of Maryland read as follows:
8	Article – Public Utilities
9	7–701.
10	(a) In this subtitle the following words have the meanings indicated.
11	(b) "Administration" means the Maryland Energy Administration.
12 13	(c) "Fund" means the Maryland Strategic Energy Investment Fund established under \S 9–20B–05 of the State Government Article.
14	(d) "Geothermal heating and cooling system" means a system that:
15 16 17	(1) exchanges thermal energy from groundwater or a shallow ground source to generate thermal energy through a geothermal heat pump or a system of geothermal heat pumps interconnected with any geothermal extraction facility that is:
18 19 20	(i) a closed loop or a series of closed loop systems in which fluid is permanently confined within a pipe or tubing and does not come in contact with the outside environment; or
21 22 23	(ii) an open loop system in which ground or surface water is circulated in an environmentally safe manner directly into the facility and returned to the same aquifer or surface water source;
$\frac{24}{25}$	(2) meets or exceeds the current federal Energy Star product specification standards;
$\frac{26}{27}$	(3) [replaces or displaces inefficient space or water heating systems whose primary fuel is electricity or a nonnatural gas fuel source;
28 29	(4) replaces or displaces inefficient space cooling systems that do not meet federal Energy Star product specification standards;
30 31	(5)] is manufactured, installed, and operated in accordance with applicable government and industry standards; and

1	[(6)] (4)	does not feed electricity back to the grid.
2 3 4	COOLING SYSTEM TH.	GEOTHERMAL SYSTEM" MEANS A GEOTHERMAL HEATING AND AT WAS PLACED IN SERVICE ON OR BEFORE DECEMBER 31,
5 6 7	GEOTHERMAL HEATIN	$\frac{121}{2}$ $\frac{POST-2022}{2}$ GEOTHERMAL SYSTEM" MEANS AND COOLING SYSTEM THAT IS PLACED IN SERVICE ON OR $\frac{1}{2}$
8	* /	ewable source" means one or more of the following types of energy
10	` '	r energy, including energy from photovoltaic technologies and solar
2	(2) wind	$\mathbf{d};$
13	3 (3) qual	ifying biomass;
14	` '	hane from the anaerobic decomposition of organic materials in a reatment plant;
16 17	()	hermal, including energy generated through geothermal exchange avoided by, groundwater or a shallow ground source;
18 19	` '	n, including energy from waves, tides, currents, and thermal
20 21	` '	el cell that produces electricity from a Tier 1 renewable source this subsection;
22 23	` /	nall hydroelectric power plant of less than 30 megawatts in capacity pt from licensing by the Federal Energy Regulatory Commission;
24	(9) poul	try litter-to-energy;
25	(10) was	te-to-energy;
26	(11) refu	se–derived fuel; and
27	7 (12) ther	mal energy from a thermal biomass system.
28	3 7–703.	

1 Except as provided in [subsection (e)] SUBSECTIONS (E) AND (F) of this 2 section, the renewable energy portfolio standard shall be as follows: 3 in 2006, 1% from Tier 1 renewable sources and 2.5% from Tier 2 4 renewable sources; 5 (2)in 2007, 1% from Tier 1 renewable sources and 2.5% from Tier 2 6 renewable sources: 7 in 2008, 2.005% from Tier 1 renewable sources, including at least 8 0.005% derived from solar energy, and 2.5% from Tier 2 renewable sources; 9 in 2009, 2.01% from Tier 1 renewable sources, including at least 0.01% derived from solar energy, and 2.5% from Tier 2 renewable sources; 10 in 2010, 3.025% from Tier 1 renewable sources, including at least 11 12 0.025% derived from solar energy, and 2.5% from Tier 2 renewable sources; 13 in 2011, 5.0% from Tier 1 renewable sources, including at least 0.05% 14 derived from solar energy, and 2.5% from Tier 2 renewable sources; 15 in 2012, 6.5% from Tier 1 renewable sources, including at least 0.1% (7)16 derived from solar energy, and 2.5% from Tier 2 renewable sources; 17 in 2013, 8.2% from Tier 1 renewable sources, including at least 0.25% 18 derived from solar energy, and 2.5% from Tier 2 renewable sources; 19 (9)in 2014, 10.3% from Tier 1 renewable sources, including at least 0.35% 20 derived from solar energy, and 2.5% from Tier 2 renewable sources; 21in 2015, 10.5% from Tier 1 renewable sources, including at least 0.5% 22derived from solar energy, and 2.5% from Tier 2 renewable sources; 23 in 2016, 12.7% from Tier 1 renewable sources, including at least 0.7% derived from solar energy, and 2.5% from Tier 2 renewable sources; 2425(12)in 2017: 26 (i) 13.1% from Tier 1 renewable sources, including: 27 1. at least 1.15% derived from solar energy; and

an amount set by the Commission under § 7–704.2(a) of

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

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

2.

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1	(13)	in 20	18:
2		(i)	15.8% from Tier 1 renewable sources, including:
3			1. at least 1.5% derived from solar energy; and
4 5	this subtitle, not to	o excee	2. an amount set by the Commission under \S 7–704.2(a) of d 2.5%, derived from offshore wind energy; and
6		(ii)	2.5% from Tier 2 renewable sources;
7	(14)	in 20	9:
8		(i)	20.7% from Tier 1 renewable sources, including:
9			1. at least 5.5% derived from solar energy; and
10	this subtitle, not to	o excee	2. an amount set by the Commission under \S 7–704.2(a) of d 2.5%, derived from offshore wind energy; and
12		(ii)	2.5% from Tier 2 renewable sources;
13	(15)	in 202	20:
4		(i)	28% from Tier 1 renewable sources, including:
5			1. at least 6% derived from solar energy; and
16 17	this subtitle, not to	o excee	2. an amount set by the Commission under § 7–704.2(a) of d 2.5%, derived from offshore wind energy; and
8		(ii)	2.5% from Tier 2 renewable sources;
9	(16)	in 202	21, 30.8% from Tier 1 renewable sources, including:
20		(i)	at least 7.5% derived from solar energy; and
21 22	subtitle derived from	(ii) om offs	an amount set by the Commission under § 7–704.2(a) of this hore wind energy;
23	(17)	in 202	22, 33.1% from Tier 1 renewable sources, including:
24		(i)	at least 8.5% derived from solar energy; { and }
25 26	subtitle derived for	(ii)	an amount set by the Commission under § 7–704.2(a) of this

$\frac{1}{2}$	GEOTHERMAL SY	` ,		LEAST	0.15%	<u>0.05%</u>	-DERIVED	FROM	POST-2021
3	(18)	in 202	, 23, 38	5.4% fron	n Tier 1 r	enewable	e sources, in	cluding:	
4	, ,	(i)	at le	east 9.5%	derived	from sola	ır energy; [a	nd]	
5 6	subtitle derived from	(ii) om offs	an a	amount :	set by th	e Comm		_	4.2(a) of this
7 8	<i>POST-2022</i> GEOT	(III)	AT	LEAST 9	.25% <u>0.</u> 1		5% DERIVE	D FROM	POST 2021
9	(19)	in 202	24, 3'	7.7% fron	n Tier 1 r	enewable	e sources, in	cluding:	
10		(i)	at le	east 10.5°	% derived	d from sol	lar energy; [and]	
11 12	subtitle derived from	(ii) om offs			•		ission under	r § 7–70	4.2(a) of this
13 14	<u>POST-2022</u> GEOT					25% 0.18	5% DERIVE	D FROM	POST-2021
15	(20)	in 202	25, 40	0% from '	Tier 1 rer	newable s	sources, incl	uding:	
16		(i)	at le	east 11.5°	% derived	d from sol	lar energy; [and]	
17 18	subtitle, not to exc	(ii) eed 10			=			r § 7–70	4.2(a) of this
19 20	<u>POST-2022</u> GEOT				·	5% 0.25	<u>7%</u> DERIVE	D FROM	POST 2021
21	(21)	in 202	26, 42	2.5% fron	n Tier 1 r	enewable	e sources, in	cluding:	
22		(i)	at le	east 12.5	% derived	d from sol	lar energy; [and]	
23 24 25	subtitle derived fr		shore		•			•	4.2(a) of this as of Round 2
26 27	<u>POST-2022</u> GEOT	(III) HERM				5% 0.5%	<u>6</u> DERIVED	FROM	POST-2021
28	(22)	in 202	27, 48	5.5% fron	n Tier 1 r	enewable	e sources, in	cluding:	

1		(i)	at least 13.5% derived from solar energy; [and]
2 3 4	subtitle derived fr offshore wind proje		an amount set by the Commission under § 7–704.2(a) of this shore wind energy, including at least 400 megawatts of Round 2 ND
5 6	GEOTHERMAL SY		AT LEAST $\frac{1\%}{2000}$ DERIVED FROM $1000000000000000000000000000000000000$
7	(23)	in 202	28, 47.5% from Tier 1 renewable sources, including:
8		(i)	at least 14.5% derived from solar energy; [and]
9 10 11	subtitle derived froffshore wind projection		an amount set by the Commission under § 7–704.2(a) of this shore wind energy, including at least 800 megawatts of Round 2 ND
12 13	GEOTHERMAL SY	(III) STEMS	AT LEAST 1% DERIVED FROM POST 2021 <u>POST 2022</u> 5;
14	(24)	in 202	29, 49.5% from Tier 1 renewable sources, including:
15		(i)	at least 14.5% derived from solar energy; [and]
16 17 18	subtitle derived fr offshore wind proje		an amount set by the Commission under § 7–704.2(a) of this shore wind energy, including at least 800 megawatts of Round 2 nd
19 20	GEOTHERMAL SY	(III) STEMS	AT LEAST 1% DERIVED FROM POST-2021 <u>POST-2022</u> S; AND
21	(25)	in 203	30 and later, 50% from Tier 1 renewable sources, including:
22		(i)	at least 14.5% derived from solar energy; [and]
23 24 25	subtitle derived fro		an amount set by the Commission under § 7–704.2(a) of this shore wind energy, including at least 1,200 megawatts of Round 2 ND
26 27	GEOTHERMAL SY	(III) STEMS	AT LEAST 1% DERIVED FROM POST-2021 <u>POST-2022</u> S.
28 29	(F) (1) MEANINGS INDIC	(I) ATED.	IN THIS SUBSECTION THE FOLLOWING WORDS HAVE THE

- 1 (II) "AREA MEDIAN INCOME" HAS THE MEANING STATED IN 2 § 4–1801 OF THE HOUSING AND COMMUNITY DEVELOPMENT ARTICLE.
- 3 (III) "LOW OR MODERATE INCOME HOUSING" MEANS HOUSING
 4 THAT IS AFFORDABLE FOR A HOUSEHOLD WITH AN AGGREGATE ANNUAL INCOME
 5 THAT IS BELOW 120% OF THE AREA MEDIAN INCOME.
- 6 (2) AT LEAST 25% OF THE REQUIRED PERCENTAGE OF THE 7 RENEWABLE ENERGY PORTFOLIO FOR EACH YEAR AS SET FORTH IN SUBSECTION (B) 8 OF THIS SECTION DERIVED FROM POST-2021 POST-2022 GEOTHERMAL SYSTEMS 9 SHALL BE DERIVED FROM SYSTEMS THAT WERE INSTALLED:
- 10 (I) AT SINGLE OR MULTIFAMILY HOUSING UNITS THAT
 11 QUALIFIED AS LOW OR MODERATE INCOME HOUSING ON THE DATE THE SYSTEM WAS
 12 INSTALLED ON THE PROPERTY; OR
- 13 (II) AT INSTITUTIONS THAT PRIMARILY SERVE LOW AND 14 MODERATE INCOME INDIVIDUALS AND FAMILIES, INCLUDING:
- 15 SCHOOLS WITH A MAJORITY OF STUDENTS WHO ARE ELIGIBLE FOR FREE AND REDUCED PRICE MEALS;
- 17 **2.** HOSPITALS WITH A MAJORITY OF PATIENTS ELIGIBLE 18 FOR FINANCIAL ASSISTANCE OR WHO ARE ENROLLED IN MEDICAID; AND
- 3. OTHER INSTITUTIONS THAT SERVE INDIVIDUALS AND FAMILIES WHERE THE MAJORITY OF THOSE SERVED ARE ELIGIBLE BASED ON INCOME FOR FEDERAL OR STATE SAFETY NET PROGRAMS.
- 22 7–704.

- (h) (1) [Energy] EXCEPT AS PROVIDED IN PARAGRAPH (6) OF THIS SUBSECTION, ENERGY from a geothermal heating and cooling system, INCLUDING ENERGY FROM A LEGACY GEOTHERMAL SYSTEM AND ENERGY FROM A POST—2021 POST—2022 GEOTHERMAL SYSTEM, is eligible for inclusion in meeting the renewable energy portfolio standard.
- 28 (2) A person shall receive a renewable energy credit equal to the amount of energy, converted from BTUs to kilowatt–hours, that is generated by a geothermal heating and cooling system for space heating and cooling or water heating if the person:
- 31 (i) owns and operates the system;
 - (ii) leases and operates the system; or

$\frac{1}{2}$	(iii) contracts with a third party who owns and operates the system PORTION OF THE SYSTEM THAT CONSISTS OF:
3 4 5	1. A CLOSED LOOP OR A SERIES OF CLOSED LOOP SYSTEMS IN WHICH FLUID IS PERMANENTLY CONFINED WITHIN A PIPE OR TUBING AND DOES NOT COME IN CONTACT WITH THE OUTSIDE ENVIRONMENT; OR
6 7 8 9	2. AN OPEN LOOP SYSTEM IN WHICH GROUND OR SURFACE WATER IS CIRCULATED IN AN ENVIRONMENTALLY SAFE MANNER DIRECTLY INTO THE FACILITY AND RETURNED TO THE SAME AQUIFER OR SURFACE WATER SOURCE.
10 11	(3) To determine the energy savings of a geothermal heating and cooling system for a residence, the Commission shall:
12 13	(i) identify available Internet-based energy consumption calculators developed by the geothermal heating and cooling industry;
14 15	(ii) collect the following data provided in the renewable energy credit application that:
16 17	1. describes the name of the applicant and the address at which the geothermal heating and cooling system is installed; and
18 19	2. provides the annual BTU energy savings attributable to home heating, cooling, and water heating; and
20 21 22	(iii) in determining the annual amount of renewable energy credits awarded for the geothermal heating and cooling system, convert the annual BTUs into annual megawatt hours.
23 24	(4) To determine the energy savings of a nonresidential geothermal heating and cooling system, the Commission shall:
25 26	(i) use the geothermal heating and cooling engineering technical system designs provided with the renewable energy credit application; and
27 28 29	(ii) in determining the annual amount of renewable energy credits awarded for the geothermal heating and cooling system, convert the annual BTUs into annual megawatt hours.
30 31	(5) A geothermal heating and cooling system shall be installed in accordance with applicable State well construction and local building code standards.

A POST-2021 POST-2022 GEOTHERMAL SYSTEM WITH A 1 **(6)** (I)2 360,000 BTU CAPACITY IS ELIGIBLE FOR INCLUSION IN MEETING THE RENEWABLE 3 ENERGY PORTFOLIO STANDARD ONLY IF, AT THE TIME OF INSTALLATION, THE COMPANY INSTALLING THE SYSTEM IS CERTIFIED BY THE COMMISSION AS 4 **PROVIDING** PROVIDES FOR ITS EMPLOYEES: 5 6 1. FAMILY-SUSTAINING WAGES; 7 2. EMPLOYER-PROVIDED HEALTH CARE WITH AFFORDABLE DEDUCTIBLES AND CO-PAYS; 8 9 3. CAREER ADVANCEMENT TRAINING, AS PROVIDED IN 10 SUBPARAGRAPH (II) OF THIS PARAGRAPH; 11 4. FAIR SCHEDULING; 12 5. EMPLOYER-PAID WORKERS' COMPENSATION AND 13 **UNEMPLOYMENT INSURANCE;** 14 6. A RETIREMENT PLAN; 15 7. PAID TIME OFF; AND 16 8. THE RIGHT TO BARGAIN COLLECTIVELY FOR WAGES 17 AND BENEFITS. 18 (II) AS PART OF THE CAREER ADVANCEMENT TRAINING THE 19 INSTALLATION COMPANY PROVIDES, THE COMPANY SHALL ENSURE THAT A 20 MINIMUM OF 10% OF THE EMPLOYEES WORKING ON THE INSTALLATION ARE ENROLLED IN AN APPRENTICESHIP PROGRAM APPROVED BY AND REGISTERED WITH 21THE STATE OR THE FEDERAL GOVERNMENT. 2223(III) THE COMMISSION SHALL ADOPT REGULATIONS PROVIDING 24FOR THE CERTIFICATION OF INSTALLATION COMPANIES IN ACCORDANCE WITH THIS 25PARAGRAPH COMPLIANCE WITH THIS PARAGRAPH SHALL BE REGULATED AND ENFORCED BY THE DEPARTMENT OF LABOR. 26 7 - 705. 27

This subsection does not apply to a shortfall from the required Tier 1

30 (I) offshore wind energy; OR

renewable sources that is to be derived from:

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1		(II)	POST	-2021 <u>POST-2022</u> GEOTHERMAL SYSTEMS.
2 3 4 5	portfolio standard	for the Ener	he app	icity supplier fails to comply with the renewable energy blicable year, the electricity supplier shall pay into the restment Fund established under § 9–20B–05 of the State
6 7	of:	(i)	excep	t as provided in item (ii) of this paragraph, a compliance fee
8 9 10	•			the following amounts for each kilowatt–hour of shortfall sources other than the shortfall from the required Tier 1 derived from solar energy:
11			A.	4 cents through 2016;
12			В.	3.75 cents in 2017 and 2018;
13			C.	3 cents in 2019 through 2023;
14			D.	2.75 cents in 2024;
15			E.	2.5 cents in 2025;
16			F.	2.475 cents in 2026;
17			G.	2.45 cents in 2027;
18			Н.	2.25 cents in 2028 and 2029; and
19			I.	2.235 cents in 2030 and later;
20 21	from required Tier	1 rene	2. ewable	the following amounts for each kilowatt–hour of shortfall sources that is to be derived from solar energy:
22			A.	45 cents in 2008;
23			В.	40 cents in 2009 through 2014;
24			C.	35 cents in 2015 and 2016;
25			D.	19.5 cents in 2017;
26			E.	17.5 cents in 2018;
27			F.	10 cents in 2019;

1		G.	10 cents in 2020;
2		Н.	8 cents in 2021;
3		I.	6 cents in 2022;
4		J.	4.5 cents in 2023;
5		K.	4 cents in 2024;
6		L.	3.5 cents in 2025;
7		M.	3 cents in 2026;
8		N.	2.5 cents in 2027 and 2028;
9		0.	2.25 cents in 2029; and
10		P.	2.235 cents in 2030 and later; and
11 12	Tier 2 renewable sources	3. s; or	1.5 cents for each kilowatt–hour of shortfall from required
13	(ii)	for in	dustrial process load:
14 15	renewable sources, a con	1. nplianc	for each kilowatt–hour of shortfall from required Tier 1 te fee of:
16		A.	0.8 cents in 2006, 2007, and 2008;
17		В.	0.5 cents in 2009 and 2010;
18		C.	0.4 cents in 2011 and 2012;
19		D.	0.3 cents in 2013 and 2014;
20		E.	0.25 cents in 2015 and 2016; and
$\begin{array}{c} 21 \\ 22 \end{array}$	cents in 2017 and later;	F. and	except as provided in paragraph (3) of this subsection, 0.2
23 24	sources.	2.	nothing for any shortfall from required Tier 2 renewable
25	(3) For i	ndustr	ial process load, the compliance fee for each kilowatt-hour

of shortfall from required Tier 1 renewable sources is:

- 1 0.1 cents in any year during which suppliers are required to (i) 2 purchase ORECs under § 7-704.2 of this subtitle; and 3 nothing for the year following any year during which, after final calculations, the net rate impact per megawatt-hour from Round 1 offshore wind projects 4 exceeded \$1.65 in 2012 dollars. 5 6 (B-1) IF AN ELECTRICITY SUPPLIER FAILS TO COMPLY WITH THE RENEWABLE 7 ENERGY PORTFOLIO STANDARD THAT IS REQUIRED TO BE DERIVED FROM 8 POST-2021 POST-2022 GEOTHERMAL SYSTEMS FOR THE APPLICABLE YEAR, THE 9 ELECTRICITY SUPPLIER SHALL PAY INTO THE MARYLAND STRATEGIC ENERGY INVESTMENT FUND ESTABLISHED UNDER § 9-20B-05 OF THE STATE GOVERNMENT 10 ARTICLE A COMPLIANCE FEE OF: 11 12 10 CENTS IN 2022 2023 AND 2023 THROUGH 2024 2025; **(1) (2)** 9 CENTS IN 2024 2025 *2026*; 13 8 CENTS IN 2025 2026 2027; AND 14 **(3) (4)** 6.5 CENTS IN 2026 2027 2028 AND LATER. 15 16 7-712 17 Subject to § 2-1257 of the State Government Article, on or before December 1 18 of each year the Commission shall report to the General Assembly on the status of implementation of this subtitle, including the availability of Tier 1 renewable sources, 19 projects supported by the Fund, and other pertinent information. 20 SUBJECT TO § 2-1257 OF THE STATE GOVERNMENT ARTICLE, ON OR 21 BEFORE DECEMBER 1, 2021, AND ON OR BEFORE DECEMBER 1, 2022, THE 22 23 COMMISSION SHALL REPORT TO THE GENERAL ASSEMBLY ON THE STATUS OF THE 24IMPLEMENTATION OF GEOTHERMAL HEATING AND COOLING SYSTEMS IN THE 25 STATE, INCLUDING: 26 THE NUMBER OF GEOTHERMAL HEATING AND COOLING SYSTEMS (1) 27 **CURRENTLY IN OPERATION:** 28AN ANALYSIS OF THE COST AND FEASIBILITY OF INCREASING 29 STATE INCENTIVES TO PROMOTE THE USE OF GEOTHERMAL HEATING AND COOLING SYSTEMS: AND 30
- 31 (3) AN ASSESSMENT OF BEST PRACTICES DESIGNED TO CREATE 32 INCENTIVES FOR THE USE OF GEOTHERMAL HEATING AND COOLING SYSTEMS.

1 Article - State Government 2 9-20B-05. There is a Maryland Strategic Energy Investment Fund. 3 (a) 4 (b) The purpose of the Fund is to implement the Strategic Energy Investment Program. 5 6 (I-1) (1) **(I)** IN THIS SUBSECTION THE FOLLOWING WORDS HAVE THE 7 MEANINGS INDICATED. "AREA MEDIAN INCOME" HAS THE MEANING STATED IN § 8 4-1801 OF THE HOUSING AND COMMUNITY DEVELOPMENT ARTICLE. 9 (III) "LOW AND MODERATE INCOME" MEANS HAVING AN ANNUAL 10 HOUSEHOLD INCOME THAT IS AT OR BELOW 120% OF THE AREA MEDIAN INCOME. 11 12 **(2)** COMPLIANCE FEES PAID UNDER § 7–705(B–1) OF THE PUBLIC 13 UTILITIES ARTICLE SHALL BE ACCOUNTED FOR SEPARATELY WITHIN THE FUND 14 AND MAY BE USED ONLY TO MAKE LOANS AND GRANTS TO SUPPORT THE CREATION OF NEW GEOTHERMAL HEATING AND COOLING SYSTEMS IN THE STATE THAT ARE 15 16 OWNED BY OR DIRECTLY BENEFIT LOW AND MODERATE INCOME RESIDENTS OF 17 PROMOTE INCREASED OPPORTUNITIES FOR THE GROWTH AND DEVELOPMENT OF 18 SMALL, MINORITY, WOMEN-OWNED, AND VETERAN-OWNED BUSINESSES IN THE STATE THAT INSTALL GEOTHERMAL SYSTEMS IN THE STATE. 19 SECTION 2. AND BE IT FURTHER ENACTED, That: 20 21The Maryland Energy Administration shall conduct a comprehensive (a) (1)22technical study on: 23(i) the status of geothermal heating and cooling systems in the 24State; and 25 (ii) the potential impact of expanding and incentivizing the use of geothermal heating and cooling systems in the State. 26(2) The study shall include: 2728 the number of geothermal heating and cooling units currently

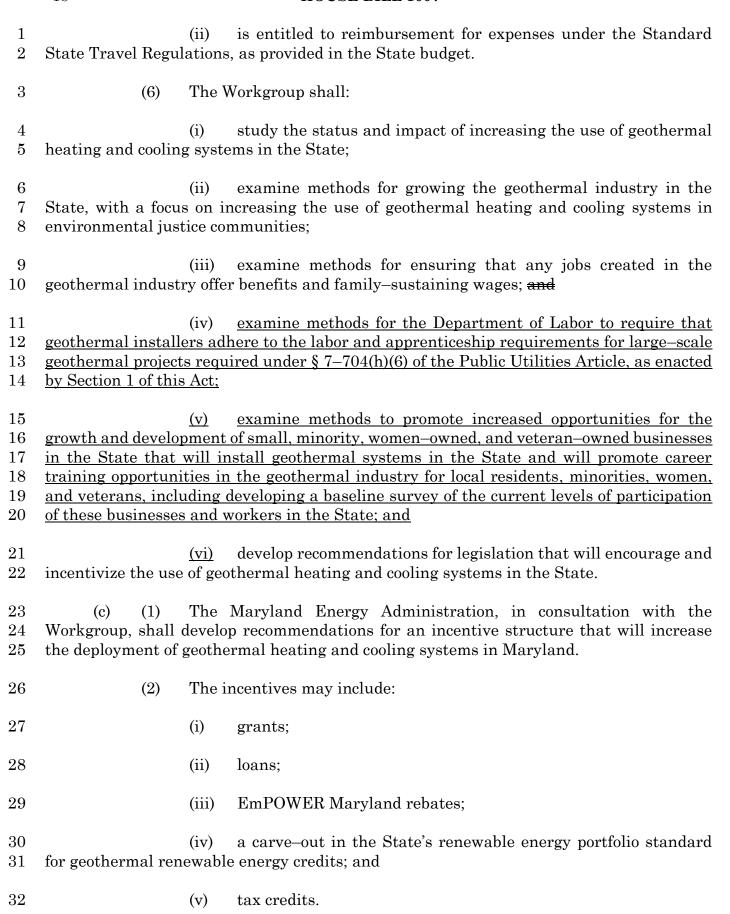
30 the cost and feasibility of increasing the use of geothermal 31 heating and cooling systems in the State;

29

operating in the State;

- 1 (iii) national and international best practices designed to incentivize 2 the use of geothermal heating and cooling systems; 3 the potential for geothermal heating and cooling systems to reduce peak electricity demand; 4 5 the potential reduction to all Maryland ratepayers in electricity 6 costs associated with the increased use of geothermal heating and cooling systems, 7 including savings from reduced peak electricity demand; 8 the economic benefits of increasing the use of geothermal heating 9 and cooling systems to the State; 10 the potential to aggregate geothermal renewable energy credits; 11 (viii) the potential greenhouse gas reductions resulting from the use of 12 geothermal heating and cooling systems; 13 the impact of geothermal heating and cooling systems on indoor (ix) air quality and localized pollution; 14 15 the life-cycle costs of public school buildings over a 50-year period, including a comparison of the costs and energy efficiency associated with using 16 17 geothermal heating and cooling systems compared to traditional energy systems; 18 the potential for family-sustaining job creation resulting from (xi) the expansion of geothermal heating and cooling systems in the State: 19 20 the potential to build neighborhood-scale district geothermal 21systems or convert existing utility infrastructure so that it can provide geothermal heating 22and cooling to an entire community; and
- 23(xiii) any other factors related to expanding the use of geothermal heating and cooling systems that the Maryland Energy Administration considers 2425necessary.
- 26 (3)The Maryland Energy Administration may contract with a third party 27 to conduct the study required under paragraph (1) of this subsection.
- 28 The Maryland Energy Administration shall submit the results of the **(4)** 29 study to the Geothermal Energy Workgroup on or before October 1, 2021.
- 30 (b) (1) There is a Geothermal Energy Workgroup.
- 31 (2) The Workgroup consists of the following members:

$1\\2$	President of the Se	(i) enate;	at least one member of the Senate of Maryland, appointed by the
3 4	Speaker of the Hou	(ii) use;	at least one member of the House of Delegates, appointed by the
5 6	Director's designee	(iii) e;	the Director of the Maryland Energy Administration, or the
7 8	Administration:	(iv)	the following members, selected by the Maryland Energy
9 10	organization;		1. at least one representative of an environmental advocacy
11 12	organization;		2. at least one representative of an environmental justice
13 14	<u>and</u>		3. at least one representative of the geothermal industry;
15 16	work or may work	in the	4. at least two representatives of labor organizations that geothermal industry; and
17 18	company; and		5. at least one representative of a Maryland electric
19 20	Building and Cons	(v) tructio	two representatives selected by the Baltimore–D.C. Metro on Trades Council;
21 22	of Columbia AFL		one representative selected by the Maryland State and District
23 24	Energy Administra	<u>(vii)</u> ation.	any other individuals considered necessary by the Maryland
25 26	(3) designee, shall cha		Director of the Maryland Energy Administration, or the Director's Workgroup.
27 28	(4) Workgroup.	The	Maryland Energy Administration shall provide staff for the
29	(5)	A me	mber of the Workgroup:
30 31	but	(i)	may not receive compensation as a member of the Workgroup;



1 2 3	(d) On or before December 1, 2021, the Director of the Maryland Energy Administration, or the Director's designee, shall report to the General Assembly, in accordance with § 2–1257 of the State Government Article, on:
4	(1) the results of the study under subsection (a) of this section;
5 6	(2) the Workgroup's findings and recommendations under subsection (b)(6) of this section; and
7 8	(3) the incentive recommendations developed under subsection (c) of this section.
9 10	SECTION 3. AND BE IT FURTHER ENACTED, That a presently existing obligation or contract right may not be impaired in any way by this Act.
11 12	SECTION $\frac{3}{2}$ 4. AND BE IT FURTHER ENACTED, That this Act shall take effect October 1, 2021.
	A
	Approved:
	Governor.
	Speaker of the House of Delegates.
	President of the Senate.