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(PRE-FILED)

By: Delegates Taylor, Dewberry, Hurson, Arnick, Busch, Guns, Harrison, Hixson, Howard, Kopp, Menes, Montague, Owings, Rawlings, Rosenberg, Vallario, and Wood

Requested: November 15, 1999

Introduced and read first time: January 12, 2000

Assigned to: Ways and Means

A BILL ENTITLED

1	AN ACT concerning	

2 Maryland Energy Efficient Technology Tax Act

- 3 FOR the purpose of allowing a credit against the State income for certain costs of
- 4 certain energy efficient property; providing for calculation of the amount of the
- 5 credit; allowing a credit against the State income tax for certain electricity
- 6 produced from certain qualified resources; providing for calculation of the
- 7 amount of the credit; providing for the carryover of certain unused credit to
- 8 certain taxable years; requiring the Maryland Energy Administration to adopt
- 9 certain regulations; defining certain terms; providing for the application and
- termination of this Act; and generally relating to certain State income tax
- credits for the cost of certain energy-efficient property and for certain electricity
- 12 produced from certain qualified resources.
- 13 BY adding to
- 14 Article Tax General
- 15 Section 10-718 and 10-719
- 16 Annotated Code of Maryland
- 17 (1997 Replacement Volume and 1999 Supplement)
- 18 SECTION 1. BE IT ENACTED BY THE GENERAL ASSEMBLY OF
- 19 MARYLAND, That the Laws of Maryland read as follows:
- 20 Article Tax General
- 21 10-718.
- 22 (A) (1) IN THIS SECTION THE FOLLOWING WORDS HAVE THE MEANINGS
- 23 INDICATED.
- 24 (2) "AUTOMOBILE" MEANS A 4-WHEELED VEHICLE PROPELLED BY FUEL
- **25 THAT:**

	ROADS, AND HIGH AND	(I) IWAYS,		NUFACTURED PRIMARILY FOR USE ON PUBLIC STREETS, THAN FOR USE EXCLUSIVELY ON A RAIL OR RAILS;	
4 5	VEHICLE WEIGHT.	(II)	IS RAT	TED AT NOT MORE THAN 8,500 POUNDS UNLOADED GROSS	
8	HEAT PUMP, CENT	AT PUM RAL AI	IP, ELEC R COND	ICIENT BUILDING PROPERTY" MEANS A FUEL CELL, CTRIC HEAT PUMP HOT WATER HEATER, ELECTRIC DITIONER, OR ADVANCED NATURAL GAS WATER IREMENTS OF SUBSECTION (F) OF THIS SECTION.	
12	THE SUM OF THE NON-HEAT ENERG	HEAT E	NGINE A	VAILABLE POWER" MEANS THE MAXIMUM VALUE OF AND ELECTRIC DRIVE SYSTEM POWER OR OTHER N DEVICES AVAILABLE FOR A DRIVER'S COMMAND AT VEHICLE SPEEDS UNDER 75 MILES PER HOUR.	
16 17	THAT USES A SOL THAT MEETS APP CERTIFICATION R	AR PHC LICABL EQUIRE	TOVOL E PERFO EMENTS	AIC PROPERTY" MEANS SOLAR ENERGY PROPERTY TAIC PROCESS TO GENERATE ELECTRICITY AND DRMANCE AND QUALITY STANDARDS AND IN EFFECT AT THE TIME OF ACQUISITION OF THE E MARYLAND ENERGY ADMINISTRATION.	
-	19 (6) "QUALIFIED ELECTRIC VEHICLE" HAS THE MEANING STATED IN § 30 20 OF THE INTERNAL REVENUE CODE.				
21	(7)	"QUAL	IFIED E	NERGY PROPERTY" MEANS:	
22		(I)	ENERO	GY-EFFICIENT BUILDING PROPERTY;	
23		(II)	SOLAR	R WATER HEATING PROPERTY; OR	
24		(III)	РНОТО	OVOLTAIC PROPERTY.	
27	25 (8) "QUALIFIED HYBRID VEHICLE" MEANS AN AUTOMOBILE THAT 26 MEETS ALL APPLICABLE REGULATORY REQUIREMENTS AND THAT CAN DRAW 27 PROPULSION ENERGY FROM BOTH OF THE FOLLOWING ON-BOARD SOURCES OF 28 STORED ENERGY:				
29		(I)	A CON	SUMABLE FUEL; AND	
30		(II)	A REC	HARGEABLE ENERGY STORAGE SYSTEM.	
31 32	(9) SOLAR ENERGY:	(I)	"SOLA	R ENERGY PROPERTY" MEANS EQUIPMENT THAT USES	
33			1.	TO GENERATE ELECTRICITY;	
34 35	FOR USE IN A STR	UCTUR	2. E; OR	TO HEAT OR COOL A STRUCTURE OR PROVIDE HOT WATER	

1			3.	TO PROVIDE SOLAR PROCESS HEAT.
	POOL, HOT TUB, OTHER THAN ST			R ENERGY PROPERTY" DOES NOT INCLUDE A SWIMMING ENERGY STORAGE MEDIUM THAT HAS A FUNCTION
5 6	(10) PROPERTY THAT		R WATE	R HEATING PROPERTY" MEANS SOLAR ENERGY
	SOLAR ENERGY STRUCTURE; AN			INSTALLED IN CONNECTION WITH A STRUCTURE, USES E OF PROVIDING HOT WATER FOR USE WITHIN THE
	AND CERTIFICA		QUIREMI	APPLICABLE PERFORMANCE AND QUALITY STANDARDS ENTS IN EFFECT AT THE TIME OF ACQUISITION OF THE MARYLAND ENERGY ADMINISTRATION .
15	CLAIM A CREDI	Γ AGAINS IIS SECTI	ST THE S ON FOR	SECTION, AN INDIVIDUAL OR A CORPORATION MAY TATE INCOME TAX FOR A TAXABLE YEAR AS THE COSTS OF THE FOLLOWING PROPERTY PLACED LE YEAR:
17	(1)	A QUA	LIFIED I	ELECTRIC VEHICLE;
18	(2)	A QUA	LIFIED I	HYBRID VEHICLE;
19 20	(-)			Y ENERGY EFFICIENT PRINCIPAL RESIDENCE F SUBSECTION (E) OF THIS SECTION; OR
21	(4)	QUALI	FIED EN	ERGY PROPERTY.
	DURING THE TA	XABLE Y	EAR, TH	ALIFIED ELECTRIC VEHICLE PLACED IN SERVICE IE CREDIT ALLOWED UNDER THIS SECTION O THE LESSER OF:
25		(I)	5% OF	THE COST OF THE QUALIFIED ELECTRIC VEHICLE; OR
26		(II)	\$2,000.	
27 28	\ /			OT ALLOWED FOR A VEHICLE UNDER THIS AT IS NOT TITLED AND REGISTERED IN THE STATE.
31 32	QUALIFIED HYB HAS A RECHARC	RID VEHI GEABLE E MAXIMUI	ICLE PLA ENERGY	HERWISE PROVIDED IN THIS SUBSECTION, FOR EACH ACED IN SERVICE DURING THE TAXABLE YEAR THAT STORAGE SYSTEM THAT PROVIDES AT LEAST 5% OF LABLE POWER, THE CREDIT ALLOWED UNDER THIS
		(I) DES AT LE		THE VEHICLE'S RECHARGEABLE ENERGY STORAGE BUT LESS THAN 10% OF THE MAXIMUM AVAILABLE

(II)\$500 IF THE VEHICLE'S RECHARGEABLE ENERGY STORAGE 2 SYSTEM PROVIDES AT LEAST 10% BUT LESS THAN 20% OF THE MAXIMUM AVAILABLE 3 POWER; \$750 IF THE VEHICLE'S RECHARGEABLE ENERGY STORAGE (III)5 SYSTEM THAT PROVIDES AT LEAST 20% BUT LESS THAN 30% OF THE MAXIMUM 6 AVAILABLE POWER; OR (IV) \$1,000 IF THE VEHICLE'S RECHARGEABLE ENERGY STORAGE 7 8 SYSTEM THAT PROVIDES AT LEAST 30% OF THE MAXIMUM AVAILABLE POWER. 9 IF THE QUALIFIED HYBRID VEHICLE ACTIVELY EMPLOYS A 10 REGENERATIVE BRAKING SYSTEM THAT SUPPLIES TO THE RECHARGEABLE ENERGY 11 STORAGE SYSTEM AT LEAST 20% OF THE ENERGY AVAILABLE FROM BRAKING IN A 12 TYPICAL 60 MILES PER HOUR TO 0 MILES PER HOUR BRAKING EVENT, THE CREDIT 13 AMOUNT DETERMINED UNDER PARAGRAPH (1) OF THIS SUBSECTION SHALL BE 14 INCREASED BY: \$125 IF THE VEHICLE'S REGENERATIVE BRAKING SYSTEM 15 (I) 16 SUPPLIES TO THE RECHARGEABLE ENERGY STORAGE SYSTEM AT LEAST 20% BUT 17 LESS THAN 40% OF THE ENERGY AVAILABLE FROM BRAKING IN A TYPICAL 60 MILES 18 PER HOUR TO 0 MILES PER HOUR BRAKING EVENT: 19 \$250 IF THE VEHICLE'S REGENERATIVE BRAKING SYSTEM (II)20 SUPPLIES TO THE RECHARGEABLE ENERGY STORAGE SYSTEM AT LEAST 40% BUT 21 LESS THAN 60% OF THE ENERGY AVAILABLE FROM BRAKING IN A TYPICAL 60 MILES 22 PER HOUR TO 0 MILES PER HOUR BRAKING EVENT; OR \$500 IF THE VEHICLE'S REGENERATIVE BRAKING SYSTEM 23 (III)24 SUPPLIES TO THE RECHARGEABLE ENERGY STORAGE SYSTEM AT LEAST 60% OF THE 25 ENERGY AVAILABLE FROM BRAKING IN A TYPICAL 60 MILES PER HOUR TO 0 MILES 26 PER HOUR BRAKING EVENT. A CREDIT IS NOT ALLOWED UNDER THIS SUBSECTION FOR A 27 (3) 28 VEHICLE: 29 (I) THAT IS NOT TITLED AND REGISTERED IN THE STATE; OR 30 (II)FOR WHICH A CREDIT IS ALLOWED UNDER SUBSECTION (C) OF 31 THIS SECTION. 32 THE MARYLAND ENERGY ADMINISTRATION SHALL ADOPT 33 REGULATIONS TO SPECIFY THE TESTING AND CALCULATION PROCEDURES TO BE 34 USED TO DETERMINE WHETHER A VEHICLE MEETS THE OUALIFICATIONS FOR A 35 CREDIT UNDER THIS SUBSECTION.

FOR AN INDIVIDUAL WHO PURCHASES A NEW, HIGHLY

37 ENERGY-EFFICIENT PRINCIPAL RESIDENCE DURING THE TAXABLE YEAR, THE 38 CREDIT ALLOWED UNDER THIS SECTION INCLUDES AN AMOUNT EQUAL TO:

36

(E)

(1)

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- **HOUSE BILL 20** 1 \$1,000 IF THE PROPERTY QUALIFIES AS 30% PROPERTY AS (I)2 DETERMINED UNDER PARAGRAPH (3) OF THIS SUBSECTION: (II)\$1,500 IF THE PROPERTY QUALIFIES AS 40% PROPERTY AS 4 DETERMINED UNDER PARAGRAPH (3) OF THIS SUBSECTION; OR \$2,000 IF THE PROPERTY QUALIFIES AS 50% PROPERTY AS (III)6 DETERMINED UNDER PARAGRAPH (3) OF THIS SUBSECTION. PROPERTY OUALIFIES AS A NEW, HIGHLY ENERGY-EFFICIENT 7 (2)8 PRINCIPAL RESIDENCE UNDER THIS SUBSECTION IF: 9 (I) THE PROPERTY IS LOCATED IN THE STATE: 10 (II)THE ORIGINAL USE OF THE PROPERTY COMMENCES WITH THE 11 TAXPAYER; 12 WITHIN 60 DAYS OF THE ORIGINAL USE, THE PROPERTY IS THE (III)13 PRINCIPAL RESIDENCE OF THE TAXPAYER WITHIN THE MEANING OF § 121 OF THE 14 INTERNAL REVENUE CODE; AND BEFORE THE ORIGINAL USE COMMENCES. AN INDIVIDUAL 15 (IV) 16 OUALIFIED TO DETERMINE COMPLIANCE CERTIFIES THE PROPERTY AS BEING 50% 17 PROPERTY, 40% PROPERTY, OR 30% PROPERTY UNDER PARAGRAPH (3) OF THIS 18 SUBSECTION. 19 FOR PURPOSES OF THIS SUBSECTION, PROPERTY IS 50% PROPERTY, 20 40% PROPERTY, OR 30% PROPERTY IF THE PROJECTED ENERGY USAGE OF THE 21 PROPERTY IS REDUCED BY AT LEAST 50%, 40%, OR 30%, RESPECTIVELY, COMPARED TO 22 THE ENERGY USAGE OF A REFERENCE HOUSE THAT COMPLIES WITH MINIMUM 23 STANDARD PRACTICE CALLED FOR UNDER THE 1995 MODEL ENERGY CODE, AS 24 DETERMINED ACCORDING TO THE REQUIREMENTS SPECIFIED IN REGULATIONS 25 ADOPTED BY THE MARYLAND ENERGY ADMINISTRATION. A DETERMINATION OF COMPLIANCE MADE FOR THE PURPOSES OF 26 27 THIS SUBSECTION SHALL BE FILED WITH THE MARYLAND ENERGY ADMINISTRATION 28 WITHIN 1 YEAR OF THE DATE OF THE DETERMINATION AND SHALL INCLUDE THE 29 TAXPAYER IDENTIFICATION NUMBER OF THE CERTIFIER, THE ADDRESS OF THE 30 BUILDING IN COMPLIANCE, AND THE IDENTITY OF THE PERSON FOR WHOM THE 31 DETERMINATION WAS PERFORMED. 32 THE MARYLAND ENERGY ADMINISTRATION SHALL ESTABLISH 33 REOUIREMENTS FOR CERTIFICATION AND COMPLIANCE PROCEDURES AFTER
- 34 EXAMINING THE REOUIREMENTS FOR ENERGY CONSULTANTS AND HOME ENERGY
- 35 RATING PROVIDERS SPECIFIED BY THE MORTGAGE INDUSTRY NATIONAL
- 36 ACCREDITATION PROCEDURES FOR HOME ENERGY RATING SYSTEMS.
- 37 AN INDIVIDUAL IS QUALIFIED TO DETERMINE COMPLIANCE FOR (6)
- 38 PURPOSES OF THIS SUBSECTION ONLY IF THE INDIVIDUAL IS RECOGNIZED BY AN

- 1 ORGANIZATION CERTIFIED BY THE MARYLAND ENERGY ADMINISTRATION FOR SUCH 2 PURPOSES. (F) FOR QUALIFIED ENERGY PROPERTY PLACED IN SERVICE DURING 4 THE TAXABLE YEAR, SUBJECT TO THE LIMITATIONS UNDER PARAGRAPH (2) OF THIS 5 SUBSECTION, THE CREDIT ALLOWED UNDER THIS SECTION INCLUDES, FOR EACH 6 UNIT: 15% OF THE COST OF PHOTOVOLTAIC PROPERTY OR SOLAR 7 (I) 8 WATER HEATING PROPERTY: 9 (II)10% OF THE COST OF: 10 1. A FUEL CELL THAT: 11 A. GENERATES ELECTRICITY AND HEAT USING AN 12 ELECTROCHEMICAL PROCESS; HAS AN ELECTRICITY-ONLY GENERATION EFFICIENCY 13 B. 14 GREATER THAN 35%; AND 15 C. HAS A MINIMUM GENERATING CAPACITY OF 5 16 KILOWATTS: 17 2. A NATURAL GAS HEAT PUMP THAT HAS A COEFFICIENT OF 18 PERFORMANCE OF AT LEAST 1.25 FOR HEATING AND AT LEAST 0.70 FOR COOLING; AN ELECTRIC HEAT PUMP HOT WATER HEATER THAT 19 20 YIELDS AN ENERGY FACTOR OF AT LEAST 1.7; 21 AN ELECTRIC HEAT PUMP THAT HAS A HEATING SYSTEM 22 PERFORMANCE FACTOR OF AT LEAST 9 AND A COOLING SEASONAL ENERGY 23 EFFICIENCY RATIO OF AT LEAST 15: A CENTRAL AIR CONDITIONER THAT HAS A COOLING 25 SEASONAL ENERGY EFFICIENCY RATIO OF AT LEAST 15; OR AN ADVANCED NATURAL GAS WATER HEATER THAT HAS 6. 27 AN ENERGY FACTOR OF AT LEAST 0.80; OR 5% OF THE COST OF QUALIFIED ENERGY PROPERTY THAT IS 28 29 NOT DESCRIBED UNDER ITEM (II) OF THIS PARAGRAPH AND IS:
- AN ELECTRIC HEAT PUMP THAT HAS A HEATING SYSTEM 30
- 31 PERFORMANCE FACTOR OF AT LEAST 7.5 AND A COOLING SEASONAL ENERGY
- 32 EFFICIENCY RATIO OF AT LEAST 13.5;
- 33 A CENTRAL AIR CONDITIONER THAT HAS A COOLING
- 34 SEASONAL ENERGY EFFICIENCY RATIO OF AT LEAST 13.5; OR

36 OF THE INTERNAL REVENUE CODE.

1 AN ADVANCED NATURAL GAS WATER HEATER THAT HAS 2 AN ENERGY FACTOR OF AT LEAST 0.65. 3 (2) THE CREDIT ALLOWED UNDER THIS SUBSECTION MAY NOT EXCEED: \$1,000 FOR EACH SYSTEM FOR PHOTOVOLTAIC PROPERTY; 4 (I) \$500 FOR EACH SYSTEM FOR SOLAR WATER HEATING (II)5 6 PROPERTY; 7 (III)\$250 FOR EACH KILOWATT OF CAPACITY FOR A FUEL CELL 8 DESCRIBED IN PARAGRAPH (1)(II)1 OF THIS SUBSECTION; (IV) \$500 FOR EACH UNIT FOR A NATURAL GAS HEAT PUMP 10 DESCRIBED IN PARAGRAPH (1)(II)2 OF THIS SUBSECTION; 11 \$250 FOR EACH UNIT FOR AN ELECTRIC HEAT PUMP HOT 12 WATER HEATER, ELECTRIC HEAT PUMP, CENTRAL AIR CONDITIONER, OR ADVANCED 13 NATURAL GAS WATER HEATER DESCRIBED IN PARAGRAPH (1)(II)3 THROUGH 6 OF 14 THIS SUBSECTION; OR (VI) \$125 FOR EACH UNIT FOR AN ELECTRIC HEAT PUMP. CENTRAL 15 16 AIR CONDITIONER, OR ADVANCED NATURAL GAS WATER HEATER DESCRIBED IN 17 PARAGRAPH (1)(III) OF THIS SUBSECTION. THE TOTAL AMOUNT OF THE CREDIT ALLOWED UNDER THIS 18 (G) 19 SECTION FOR ANY TAXABLE YEAR MAY NOT EXCEED THE STATE INCOME TAX FOR 20 THAT TAXABLE YEAR, CALCULATED BEFORE APPLICATION OF THE CREDITS UNDER 21 THIS SECTION AND §§ 10-701 AND 10-701.1 OF THIS SUBTITLE, BUT AFTER 22 APPLICATION OF THE OTHER CREDITS ALLOWABLE UNDER THIS SUBTITLE. 23 THE UNUSED AMOUNT OF THE CREDIT FOR ANY TAXABLE YEAR MAY 24 NOT BE CARRIED OVER TO ANY OTHER TAXABLE YEAR. EXCEPT AS OTHERWISE PROVIDED IN THIS TITLE, FOR PURPOSES OF 26 DETERMINING MARYLAND TAXABLE INCOME, THE BASIS OF PROPERTY WITH 27 RESPECT TO WHICH THE CREDIT UNDER THIS SECTION IS ALLOWED SHALL BE ITS 28 BASIS FOR FEDERAL INCOME TAX PURPOSES. THE CREDIT UNDER THIS SECTION MAY NOT BE CLAIMED FOR PROPERTY 30 PLACED IN SERVICE AFTER DECEMBER 31, 2004. 31 10-719. 32 (A) (1) IN THIS SECTION THE FOLLOWING WORDS HAVE THE MEANINGS 33 INDICATED. 34 EXCEPT AS PROVIDED IN SUBPARAGRAPH (II) OF THIS (I) 35 PARAGRAPH, "QUALIFIED ENERGY RESOURCES" HAS THE MEANING STATED IN § 45

	(II) NONHAZARDOUS, CELL OTHER WASTE MATERI	ULOSIC V	IFIED ENERGY RESOURCES" INCLUDES ANY SOLID, VASTE MATERIAL THAT IS SEGREGATED FROM IS DERIVED FROM:
4 5	NOT INCLUDING OLD-G	1. ROWTH T	ANY OF THE FOLLOWING FOREST-RELATED RESOURCES, IMBER:
6		A.	MILL RESIDUES;
7		B.	PRECOMMERCIAL THINNINGS;
8		C.	SLASH; OR
9		D.	BRUSH;
			WASTE PALLETS, CRATES, AND DUNNAGE AND TRIMMINGS, NOT INCLUDING UNSEGREGATED POST-CONSUMER WASTE PAPER; OR
	CROPS, VINEYARD, GR. RESIDUES.	3. AIN, LEGU	AGRICULTURAL SOURCES, INCLUDING ORCHARD TREE JMES, SUGAR, AND OTHER CROP BY-PRODUCTS OR
		ED MARY	T AS PROVIDED IN SUBPARAGRAPHS (II) AND (III) OF THIS LAND FACILITY" MEANS A QUALIFIED FACILITY, AS AL REVENUE CODE, THAT IS LOCATED IN THE STATE.
19 20	(II) FACILITY ORIGINALLY		IFIED MARYLAND FACILITY" DOES NOT INCLUDE ANY IN SERVICE BEFORE JANUARY 1, 2001.
21 22	(III) THAT:	"QUAL	IFIED MARYLAND FACILITY" INCLUDES A FACILITY
23 24	SUBSECTION TO PRODU	1. JCE ELEC	USES BIOMASS DESCRIBED IN PARAGRAPH (2)(II) OF THIS TRICITY;
25		2.	IS OWNED BY THE TAXPAYER; AND
26 27	JANUARY 1, 2001.	3.	IS ORIGINALLY PLACED IN SERVICE ON OR AFTER
30	TAXPAYER MAY CLAIN	A CREDI	COVIDED IN PARAGRAPH (2) OF THIS SUBSECTION, A IT AGAINST THE STATE INCOME TAX FOR A TAXABLE 0 0.85 CENTS FOR EACH KILOWATT HOUR OF
		LIFIED MA	JCED BY THE TAXPAYER FROM QUALIFIED ENERGY ARYLAND FACILITY DURING THE 10-YEAR PERIOD ACILITY WAS ORIGINALLY PLACED IN SERVICE; AND

- 1 (II) SOLD BY THE TAXPAYER TO AN UNRELATED PERSON DURING 2 THE TAXABLE YEAR.
- 3 (2) IF THE ELECTRICITY IS PRODUCED FROM BIOMASS THAT IS 4 CO-FIRED AT A FACILITY THAT PRODUCES ELECTRICITY FROM COAL, THE CREDIT IS 5 0.05 CENTS FOR EACH KILOWATT HOUR OF ELECTRICITY INSTEAD OF 0.85 CENTS.
- 6 (C) IF THE CREDIT ALLOWED UNDER THIS SECTION EXCEEDS THE STATE
 7 INCOME TAX, ANY UNUSED CREDIT MAY BE CARRIED FORWARD AND APPLIED FOR
 8 SUCCEEDING TAXABLE YEARS UNTIL THE EARLIER OF:
- 9 (1) THE FULL AMOUNT OF THE CREDIT IS USED; OR
- 10 (2) THE EXPIRATION OF THE 10TH TAXABLE YEAR AFTER THE TAXABLE 11 YEAR IN WHICH THE CREDIT AROSE.
- 12 SECTION 2. AND BE IT FURTHER ENACTED, That this Act shall take effect
- 13 July 1, 2000 and shall be applicable to all taxable years beginning after December 31,
- 14 2000 but before January 1, 2005. It shall remain effective for a period of 5 years and,
- 15 at the end of June 30, 2005, with no further action required by the General Assembly,
- 16 this Act shall be abrogated and of no further force and effect.