111TH CONGRESS 2D SESSION

H. R. 4597

To increase the quantity of solar photovoltaic electricity by providing rebates for the purchase and installation of an additional 10,000,000 solar roofs and additional solar water heating systems with a cumulative capacity of 10,000,000 gallons by 2019.

IN THE HOUSE OF REPRESENTATIVES

February 4, 2010

Mr. Cohen (for himself, Mr. Blumenauer, Mrs. Capps, Mr. Hall of New York, Ms. Kaptur, Ms. Richardson, Mr. Rothman of New Jersey, Mr. Sires, Mr. Welch, and Mr. Yarmuth) introduced the following bill; which was referred to the Committee on Energy and Commerce

A BILL

To increase the quantity of solar photovoltaic electricity by providing rebates for the purchase and installation of an additional 10,000,000 solar roofs and additional solar water heating systems with a cumulative capacity of 10,000,000 gallons by 2019.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION 1. SHORT TITLE.
- 4 This Act may be cited as the "10 Million Solar Roofs
- 5 and 10 Million Gallons of Solar Water Heating Act of
- 6 2010".

1 SEC. 2. FINDINGS.

2	Congress finds that—
3	(1)(A) there is huge potential for increasing the
4	quantity of electricity produced in the United States
5	from distributed solar photovoltaics and solar water
6	heating systems;
7	(B) the use of solar photovoltaics on the roofs
8	of 10 percent of existing buildings could meet 70
9	percent of peak electric demand;
10	(C) a key barrier to increased deployment of
11	solar photovoltaic and hot water heating systems is
12	the upfront cost of capital, even though over time
13	the systems are cost-effective;
14	(2) investment in solar photovoltaics technology
15	will create economies of scale that will allow the
16	technology to deliver electricity at prices that are
17	competitive with electricity from fossil fuels;
18	(3) electricity produced from distributed solar
19	photovoltaics helps to reduce greenhouse gas emis-
20	sions, does not emit harmful air pollutants, such as
21	mercury, sulfur dioxide, and nitrogen oxides, uses
22	existing rooftop space, and does not require addi-
23	tional land for generation, thereby conserving nat-
24	ural resources and wildlife habitat;
25	(4) electricity produced from distributed solar
26	photovoltaics enhances national energy security and

- helps to meet peak power demand without requiring the construction and siting of new transmission infrastructure;
 - (5) investments in renewable energy stimulate the development of green jobs in the United States that provide substantial economic benefits;
 - (6)(A) rebate programs in several States have been successful in increasing the quantity of solar energy from distributed solar photovoltaics and solar water heating systems;
 - (B) the State of California leads the United States in installed solar photovoltaic systems and has used rebate programs to promote the installation of more than 500 megawatts of grid-connected solar photovoltaics, with 226 megawatts installed during the 3-year period ending on the date of enactment of this Act due to the Solar Initiative of the State;
 - (C) the State of New Jersey is second in the United States in installed solar photovoltaic systems and has used incentive programs to achieve 90 megawatts of installed solar capacity;
 - (D) the State of Hawaii leads the United States in solar water heating systems installed, and will require all new homes to have solar water heating systems starting in 2010, which is projected to save the

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- average household \$600 annually and reduce the oil consumption of the State by 30,000 barrels in 2010 alone; and
 - (E) the State of Florida has used consumer and business rebate programs for solar photovoltaic and solar water heating systems and is second in the United States in installed solar hot water systems;
 - (7) despite inventing solar technology, the United States has fallen behind nations with less solar resources because those nations have set in place policies to promote solar energy, and the United States now ranks fourth in installed solar behind Germany, Spain, and Japan;
 - (8) there are more than 1,500,000 solar water heating systems in the United States that rely on a free fuel source, the sun, to provide hot water, and there is enormous potential for additional solar hot water systems to displace fossil fuel use in water heating; and
 - (9) homes in the United States spend more than \$13,000,000,000 on energy for water heating, which is equivalent to 11.4 barrels of oil per home and accounts for approximately 30 percent of the carbon dioxide emissions of an average home, but solar water heating systems can reduce the cost of

1	water heating and reduce residential carbon dioxide
2	emissions.
3	SEC. 3. REBATES FOR PURCHASE AND INSTALLATION OF
4	PHOTOVOLTAIC SYSTEMS AND SOLAR WATER
5	HEATING SYSTEMS.
6	(a) In General.—The Secretary of Energy (referred
7	to in this Act as the "Secretary") shall establish a pro-
8	gram under which the Secretary shall provide rebates to
9	eligible individuals or entities for the purchase and instal-
10	lation of solar photovoltaic systems and solar water heat-
11	ing systems for residential and commercial properties in
12	order to install, over the 10-year period beginning on the
13	date of enactment of this Act, at least—
14	(1) an additional 10,000,000 solar systems in
15	the United States (as compared to the number of
16	solar systems installed in the United States as of the
17	date of enactment of this Act) with a cumulative ca-
18	pacity of at least 30,000 megawatts; and
19	(2) an additional 200,000 solar water heating
20	systems in the United States (as compared to the
21	number of solar water heating systems installed in
22	the United States as of the date of enactment of this
23	Act) with a cumulative capacity of 10,000,000 gal-
24	lons.
25	(b) Eligibility.—

1	(1) In general.—To be eligible for a rebate
2	under this section—
3	(A) the recipient of the rebate shall be a
4	homeowner, business, nonprofit entity, or State
5	or local government that purchased and in-
6	stalled a solar photovoltaic system or solar
7	water heating system for a property located in
8	the United States; and
9	(B) the total capacity of the solar photo-
10	voltaic system for the property shall not exceed
11	2 megawatts.
12	(2) Other incentives.—The Secretary shall
13	issue guidance to participating solar installers and
14	contractors to ensure that information is made avail-
15	able to rebate recipients on all available Federal
16	State, local, and other incentives for energy effi-
17	ciency improvements that can be made in the build-
18	ings on the property at which the solar photovoltaic
19	or hot water heating system is being installed.
20	(3) Other entities.—After public review and
21	comment, the Secretary may identify other individ-
22	uals or entities located in the United States that
23	qualify for a rebate under this section.
24	(c) Amounts.—
25	(1) Solar photovoltaic systems.—

1 (A) IN GENERAL.—Subject to subpara2 graph (B) and paragraph (3), the amount of a
3 rebate provided to an eligible individual or enti4 ty for the purchase and installation of a solar
5 photovoltaic system for a property under this
6 section shall be a rebate per watt of installed
7 capacity not to exceed the following amounts:

Calendar year	Dollar per watt
2010	1.75
2011	1.75
2012	1.5
2013	1.25
2014	1
2015	1
2016	0.75
2017	0.75
2018	0.5
2019	0.5.

- 8 (B) Adjustments.—The Secretary may
 9 adjust the maximum amounts described in sub10 paragraph (A)—
- 11 (i) to ensure deployment consistent 12 with the purposes of this Act; and
- 13 (ii) to respond to projected and actual
 14 market conditions.
- 15 (2) Solar water heating systems.—
 - (A) IN GENERAL.—Subject to subparagraph (B) and paragraph (3), the amount of a rebate provided to an eligible individual or entity for the purchase and installation of a solar water heating system under this section shall be

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- not more than \$1 for each watt thermal-equivalent of installed capacity during calendar year 2010.
 - (B) Adjustments.—The Secretary shall ensure that the maximum amount described in subparagraph (A) decreases over time at a rate that is similar to the schedule described in paragraph (1)(A), and consistent with projected and actual market conditions and the purposes of this Act, for each watt thermal-equivalent of installed capacity.
 - (3) Maximum amount.—The total amount of a rebate provided to an eligible individual or entity for the purchase and installation of a solar photovoltaic system or solar water heating system for a property under this section shall not exceed 50 percent of the remaining cost to the purchaser for the purchase and installation of the system (after consideration of all applicable Federal, State, and local incentives and tax credits).
- 21 (d) RELATIONSHIP TO OTHER LAW.—The authority 22 provided under this section shall be in addition to any 23 other authority under which credits or other types of fi-24 nancial assistance are provided for installation of a solar 25 photovoltaic or solar water heating system for a property.

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- 1 (e) AUTHORIZATION OF APPROPRIATIONS.—There
- 2 are authorized to be appropriated such sums as are nec-

3 essary to carry out this section.

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