108TH CONGRESS 1ST SESSION

H. R. 3509

To amend the Public Utility Regulatory Policies Act of 1978 to promote energy independence and self-sufficiency by providing for the use of net metering by certain small electric energy generation systems, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

NOVEMBER 18, 2003

Mr. Inslee (for himself, Mr. Bartlett of Maryland, Mr. Ehlers, Mr. Frost, Mr. Boehlert, Mr. Van Hollen, Mr. Leach, Mr. Larsen of Washington, Mr. Udall of Colorado, Ms. Baldwin, Mr. Blumenauer, Mrs. Davis of California, Mr. Gutierrez, Mr. Hastings of Washington, Mr. Hinchey, Mrs. Jones of Ohio, Ms. Kaptur, Ms. Lee, Mr. McDermott, Mr. Smith of Washington, and Ms. Woolsey) introduced the following bill; which was referred to the Committee on Energy and Commerce

A BILL

To amend the Public Utility Regulatory Policies Act of 1978 to promote energy independence and self-sufficiency by providing for the use of net metering by certain small electric energy generation systems, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE.

- This Act may be cited as the "Home Energy Genera-
- 3 tion Act".
- 4 SEC. 2. FINDINGS.
- 5 The Congress finds that it is in the public interest
- 6 to:
- 7 (1) Enable small businesses, residences, schools,
- 8 churches, farms with small electric generation units,
- 9 and other retail electric customers who generate
- electric energy to return or sell surplus electric en-
- ergy on the open market.
- 12 (2) Encourage private investment in renewable
- and alternate energy resources.
- 14 (3) Stimulate the economic growth.
- 15 (4) Enhance the continued diversification sec-
- tion of energy resources used in the United States.
- 17 (5) Remove regulatory barriers for net meter-
- ing. ing.
- 19 SEC. 3. NET METERING.
- Title II of the Public Utility Regulatory Policies Act
- 21 of 1978 is amended by adding the following new section
- 22 at the end thereof:
- 23 "SEC. 215. NET METERING.
- "(a) Definitions.—As used in this section:

1	"(1) The term 'customer-generator' means the
2	owner or operator of an electric generation unit
3	qualified for net metering under this section.
4	"(2) The term 'net metering' means measuring
5	the difference between the electricity supplied to a
6	customer-generator and the electricity generated by
7	a customer-generator that is delivered to a local dis-
8	tribution section system at the same point of inter-
9	connection during an applicable billing period.
10	"(3) The terms 'electric generation unit quali-
11	fied for net metering' and 'qualified generation unit
12	mean an electric energy generation unit that meets
13	each of the following requirements:
14	"(A) The unit is a fuel cell or uses as its
15	energy source either solar, wind, or biomass.
16	"(B) The unit has a generating capacity of
17	not more than 100 kilowatts.
18	"(C) The unit is located on premises that
19	are owned, operated, leased, or otherwise con-
20	trolled by the customer-generator.
21	"(D) The unit operates in parallel with the
22	retail electric supplier.
23	"(E) The unit is intended primarily to off-
24	set part or all of the customer-generator's re-

quirements for electric energy.

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- 1 "(4) The term 'retail electric supplier' means 2 any person that sells electric energy to the ultimate 3 consumer thereof.
- "(5) The term 'local distribution system' means any system for the distribution section of electric energy to the ultimate consumer thereof, whether or not the owner or operator of such system is also a retail electric supplier.
- 9 "(b) ADOPTION.—Not later than one year after the 10 enactment of this section, subject to subsection (d), each 11 retail electric supplier shall comply with each of the fol-12 lowing requirements and notify all of its retail customers 13 of such requirements not less frequently than quarterly:
 - "(1) The supplier shall offer to arrange (either directly or through a local distribution company or other third party) to make available, on a first-come-first-served basis, to each of its retail customers that has installed an energy generation unit that is intended for net metering and that notifies the supplier of its generating capacity an electric energy meter that is capable of net metering if the customer-generator's existing electrical meter cannot perform that function.
 - "(2) Rates and charges and contract terms and conditions for the sale of electric energy to cus-

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- 1 tomer-generators shall be the same as the rates and
- 2 charges and contract terms and conditions that
- would be applicable if the customer-generator did
- 4 not own or operate a qualified generation unit and
- 5 use a net metering system.
- 6 Any retail electric supplier or local distribution company
- 7 may, at its own expense, install one or more additional
- 8 electric energy meters to monitor the flow of electricity
- 9 in either direction or to reflect the time of generation or
- 10 both. Whenever a customer-generator with a net metering
- 11 system uses any energy generation system entitled to cred-
- 12 its under a Federal minimum renewable energy generation
- 13 requirement, the total amount of energy generated by that
- 14 system shall be treated as generated by the retail electric
- 15 supplier for purposes of such requirement.
- 16 "(c) Net Energy Measurement and Billing.—
- 17 Each retail electric supplier subject to subsection (b) shall
- 18 calculate the net energy measurement for a customer
- 19 using a net metering system in the following manner:
- 20 "(1) The retail electric supplier shall measure
- 21 the net electricity produced or consumed during the
- billing period using the metering referred to in sub-
- section (b).
- 24 "(2) If the electricity supplied by the retail elec-
- 25 tric supplier exceeds the electricity generated by the

customer-generator during the billing period, the customer-generator shall be billed for the net electricity supplied by the retail electric supplier in accordance with normal metering practices.

- "(3) If electricity generated by the customergenerator exceeds the electricity supplied by the retail electric supplier, the customer-generator—
 - "(A) shall be billed for the appropriate customer charges for that billing period;
 - "(B) shall be credited for the excess electric energy generated during the billing period, with this credit appearing on the bill for the following billing period (except for a billing period that ends in the next calendar year); and
- "(C) shall not be charged for transmission losses.

If the customer-generator is using a meter that reflects the time of generation (a 'real time meter'), the credit shall be based on the retail rates for sale by the retail electric supplier at the time of such generation. At the beginning of each calendar year, any remaining unused kilowatt-hour credit accumulated by a customer-generator during the previous year may be sold by the customer-generator to any electric supplier that agrees to purchase such credit.

In the absence of any such purchase, the credit shall be assigned (at no cost) to the retail electric supplier that supplied electric energy to such customer-generator at the end of the previous year.

"(d) Percent Limitations.—

"(1) Two Percent Limitation.—A retail electric supplier shall not be required to provide local distribution service with respect to additional customer-generators after the date during any calendar year on which the total generating capacity of all customer-generators with qualified generation facilities and net metering systems served by that supplier is equal to or in excess of 2 percent of the capacity necessary to meet the supplier's average forecasted aggregate customer peak demand for that calendar year.

"(2) ONE PERCENT LIMITATION.—A retail electric supplier shall not be required to provide local distribution service with respect to additional customer-generators using a single type of qualified energy generation system after the date during any calendar year on which the total generating capacity of all customer-generators with qualified generation facilities of that type and net metering systems served by that supplier is equal to or in excess of 1

percent of the capacity necessary to meet the supplier's average forecasted aggregate customer peak demand for that calendar year.

"(3) Records and notice.—Each retail electric supplier shall maintain, and make available to the public, records of the total generating capacity of customer-generators of such system that are using net metering, the type of generating systems and energy source used by the electric generating systems used by such customer-generators. Each such retail electric supplier shall notify the Commission when the total generating capacity of such customer-generators is equal to or in excess of 2 percent of the capacity necessary to meet the supplier's aggregate customer peak demand during the previous calendar year and when the total generating capacity of such customer-generators using a single type of qualified generation is equal to or in excess of 1 percent of such capacity.

- 20 "(e) Safety and Performance Standards.—(1)
- 21 A qualified generation unit and net metering system used
- 22 by a customer-generator shall meet all applicable safety
- 23 and performance and reliability standards established by
- 24 the national electrical code, the Institute of Electrical and

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- 1 Electronics Engineers, Underwriters Laboratories, or the
- 2 American National Standards Institute.
- 3 "(2) The Commission, after consultation with State
- 4 regulatory authorities and nonregulated local distribution
- 5 systems and after notice and opportunity for comment,
- 6 may adopt by regulation additional control and testing re-
- 7 quirements for customer-generators that the Commission
- 8 determines are necessary to protect public safety and sys-
- 9 tem reliability.
- 10 "(3) The Commission shall, after consultation with
- 11 State regulatory authorities and nonregulated local dis-
- 12 tribution systems and after notice and opportunity for
- 13 comment, prohibit by regulation the imposition of addi-
- 14 tional charges by electric suppliers and local distribution
- 15 systems for equipment or services for safety or perform-
- 16 ance that are additional to those necessary to meet the
- 17 standards referred to in subparagraphs (A) and (B).
- 18 "(f) State Authority.—Nothing in this section
- 19 shall preclude a State from establishing or imposing addi-
- 20 tional incentives or requirements to encourage qualified
- 21 generation and net metering additional to that required
- 22 under this section.
- 23 "(g) Interconnection Standards.—(1) Within
- 24 one year after the enactment of this section the Commis-
- 25 sion shall publish model standards for the physical connec-

- 1 tion between local distribution systems and qualified gen-
- 2 eration units and electric generation units that would be
- 3 qualified generation units but for the fact that the unit
- 4 has a generating capacity of more than 100 kilowatts (but
- 5 not more than 250 kilowatts). Such model standards shall
- 6 be designed to encourage the use of qualified generation
- 7 units and to insure the safety and reliability of such units
- 8 and the local distribution systems interconnected with
- 9 such units. Within 2 years after the enactment of this sec-
- 10 tion, each State shall adopt such model standards, with
- 11 or without modification, and submit such standards to the
- 12 Commission for approval. The Commission shall approve
- 13 a modification of the model standards only if the Commis-
- 14 sion determines that such modification is consistent with
- 15 the purpose of such standards and is required by reason
- 16 of local conditions. If standards have not been approved
- 17 under this paragraph by the Commission for any State
- 18 within 2 years after the enactment of this section, the
- 19 Commission shall, by rule or order, enforce the Commis-
- 20 sion's model standards in such State until such time as
- 21 State standards are approved by the Commission.
- "(2) The standards under this section shall establish
- 23 such measures for the safety and reliability of the affected
- 24 equipment and local distribution systems as may be appro-
- 25 priate. Such standards shall be consistent with all applica-

- 1 ble safety and performance standards established by the
- 2 national electrical code, the Institute of Electrical and
- 3 Electronics Engineers, Underwriters Laboratories, or the
- 4 American National Standards Institute and with such ad-
- 5 ditional safety and reliability standards as the Commission
- 6 shall, by rule, prescribe. Such standards shall ensure that
- 7 generation units will automatically isolate themselves from
- 8 the electrical system in the event of an electrical power
- 9 outage. Such standards shall permit the owner or operator
- 10 of the local distribution system to interrupt or reduce de-
- 11 liveries of available energy from the generation unit to the
- 12 system when necessary in order to construct, install, main-
- 13 tain, repair, replace, remove, investigate, or inspect any
- 14 of its equipment or part of its system; or if it determines
- 15 that curtailment, interruption, or reduction is necessary
- 16 because of emergencies, forced outages, force majeure, or
- 17 compliance with prudent electrical practices.
- 18 "(3) The model standards under this subsection pro-
- 19 hibit the imposition of additional charges by local distribu-
- 20 tion systems for equipment or services for interconnection
- 21 that are additional to those necessary to meet such stand-
- 22 ards.
- 23 "(h) Interconnection.—At the election of the
- 24 owner or operator of the generation unit concerned, con-

- 1 nections meeting the standards applicable under sub-
- 2 section (g) may be made—
- 3 "(1) by such owner or operator at such owner's
- 4 or operator's expense, or
- 5 "(2) by the owner or operator of the local dis-
- 6 tribution system upon the request of the owner or
- 7 operator of the generating unit and pursuant to an
- 8 offer by the owner or operator of the generating unit
- 9 to reimburse the local distribution system in an
- amount equal to the minimum cost of such connec-
- tion, consistent with the procurement procedures of
- the State in which the unit is located, except that
- the work on all such connections shall be performed
- by qualified electrical personnel certified by a re-
- sponsible body or licensed by a State or local govern-
- ment authority.
- 17 "(i) Consumer Friendly Contracts.—The Com-
- 18 mission shall promulgate regulations insuring that sim-
- 19 plified contracts will be used for the interconnection of
- 20 electric energy by electric energy transmission or distribu-
- 21 tion systems and generating facilities that have a power
- 22 production capacity not greater than 250 kilowatts.
- 23 "(j) Enforcement.—Any person who violates any
- 24 requirement of this section shall be subject to civil pen-
- 25 alties in the amount of \$10,000 for each day that such

- 1 violation continues. Such penalties may be assessed by the
- 2 Commission, after notice and opportunity for hearing, in
- 3 the same manner as penalties are assessed under section

4 31(d) of the Federal Power Act.".

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