

[DISCUSSION DRAFT]110TH CONGRESS
1ST SESSION**H. R.** _____

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

Mr. INSLEE introduced the following bill; which was referred to the Committee
on _____

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,*

1 **SECTION 1. SHORT TITLE.**

2 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
10 electric energy to return or sell surplus electric en-
11 ergy on the open market.

12 (2) Encourage private investment in renewable
13 and alternate energy resources.

14 (3) Stimulate the economic growth.

15 (4) Enhance the continued diversification sec-
16 tion of energy resources used in the United States.

17 (5) Remove regulatory barriers for net meter-
18 ing.

19 **SEC. 3. NET METERING AND INTERCONNECTION STAND-**
20 **ARDS.**

21 Section 113 of the Public Utility Regulatory Policies
22 Act of 1978 is amended by adding the following new sub-
23 sections at the end thereof:

24 “(d) NET METERING.—

25 “(1) DEFINITIONS.—As used in this subsection:

1 “(A) The term ‘customer-generator’ means
2 the owner or operator of a qualified generation
3 unit.

4 “(B) The term ‘net metering’ means meas-
5 uring the difference between the electricity sup-
6 plied to a customer-generator and the electricity
7 generated by a customer-generator that is deliv-
8 ered to a local distribution section system at the
9 same point of interconnection during an appli-
10 cable billing period and providing an energy
11 credit to a customer-generator in the form of a
12 kilowatt-hour credit for each kilowatt-hour of
13 energy produced by a customer-generator from
14 a qualified generation unit.

15 “(C) The term ‘qualified generation unit’
16 means an electric energy generation unit that
17 meets each of the following requirements:

18 “(i) The unit is a fuel cell or uses as
19 its energy source either solar, wind, bio-
20 mass, geothermal, anaerobic digestion or
21 landfill gas, or a combination of the fore-
22 going.

23 “(ii) The unit has a generating capac-
24 ity of not more than 1,000 kilowatts.

1 “(iii) The unit is located on premises
2 that are owned, operated, leased, or other-
3 wise controlled by the customer-generator.

4 “(iv) The unit operates in parallel
5 with the retail electric supplier.

6 “(v) The unit is intended primarily to
7 offset part or all of the customer-genera-
8 tor’s requirements for electric energy.

9 “(D) The term ‘retail electric supplier’
10 means any electric utility that sells electric en-
11 ergy to the ultimate consumer thereof.

12 “(E) The term ‘local distribution system’
13 means any system for the distribution section of
14 electric energy to the ultimate consumer there-
15 of, whether or not the owner or operator of
16 such system is also a retail electric supplier.

17 “(2) ADOPTION.—Not later than one year after
18 the enactment of this subsection, each State regu-
19 latory authority (with respect to each electric utility
20 for which it has ratemaking authority), and each
21 nonregulated electric utility, shall provide public no-
22 tice and conduct a hearing respecting the standards
23 established by paragraph (3) and, on the basis of
24 such hearing, shall adopt such standard.

1 “(3) ESTABLISHMENT OF NET METERING
2 STANDARD.—Each retail electric supplier shall offer
3 to arrange (either directly or through a local dis-
4 tribution company or other third party) to make net
5 metering available, on a first-come-first-served basis,
6 to each of its retail customers in accordance with the
7 provisions of this subsection and each of the fol-
8 lowing requirements:

9 “(A) Rates and charges and contract
10 terms and conditions for the sale of electric en-
11 ergy to customer-generators shall be the same
12 as the rates and charges and contract terms
13 and conditions that would be applicable if the
14 customer-generator did not own or operate a
15 qualified generation unit and use a net meter-
16 ing system.

17 “(B) Each retail electric supplier shall no-
18 tify all of its retail customers of the standard
19 established under this paragraph upon adoption
20 of such standard.

21 “(4) NET ENERGY MEASUREMENT.—Each re-
22 tail electric supplier shall arrange to provide to cus-
23 tomer-generators who qualify for net metering under
24 subsection (b) an electrical energy meter capable of
25 net metering and measuring the flow of electricity

1 either to or from the customer and using a single
2 meter and single register, except where it is not
3 practical to do so. Where it is not practical to pro-
4 vide the meter to the customer-generator, the retail
5 electric supplier (either directly or through a local
6 distribution company or other third party) shall, at
7 its own expense, install one or more of such electric
8 energy meters for the customer-generator concerned.

9 “(5) BILLING.—Each retail electric supplier
10 subject to subsection (b) shall calculate the electric
11 energy consumption for a customer using a net me-
12 tering system in the following manner:

13 “(A) The retail electric supplier shall
14 measure the net electricity produced or con-
15 sumed during the billing period using the me-
16 tering installed as provided in paragraph (4).

17 “(B) If the electricity supplied by the retail
18 electric supplier exceeds the electricity gen-
19 erated by the customer-generator during the
20 billing period, the customer-generator shall be
21 billed for the net electric energy supplied by the
22 retail electric supplier in accordance with nor-
23 mal billing practices

24 “(C)(i) If electric energy generated by the
25 customer-generator exceeds the electric energy

1 supplied by the retail electric supplier, the cus-
2 tomer-generator shall be billed for the appro-
3 priate customer charges for that billing period
4 and credited for the excess electric energy gen-
5 erated during the billing period, with this credit
6 appearing as a kilowatt-hour credit on the bill
7 for the following billing period. The kilowatt-
8 hour credits shall be applied to customer-gener-
9 ator electric energy consumption on the fol-
10 lowing billing period bill (except for a billing pe-
11 riod that ends in the next calendar year). At
12 the beginning of each calendar year, any re-
13 maining unused kilowatt-hour credits shall be
14 extinguished.

15 “(ii) Except as provided in this clause, if
16 the customer-generator is using a meter and re-
17 tail billing arrangement that has time differen-
18 tiated rates, (a ‘time-of-use meter’), the kilo-
19 watt-hour credit shall be based on the ratio rep-
20 resenting the difference in retail rates for each
21 time of use rate or the credits shall be shown
22 on the customer-generator’s bill as a monetary
23 credit reflecting retail rates at the time of gen-
24 eration of the electric energy by the customer-
25 generator. Notwithstanding the standard estab-

1 lished under section 11(d)(14), the supplier
2 may require, at the supplier's option, the cus-
3 tomer-generator with net metering to take elec-
4 tric service under a non-time differentiated en-
5 ergy rate tariff or service that it offers to cus-
6 tomers in the same rate class as the customer-
7 generator.

8 “(6) PERCENT LIMITATIONS.—

9 “(A) TWO PERCENT LIMITATION.—The
10 standard established under this subsection shall
11 not apply for a calendar year in the case of a
12 customer-generator served by a local distribu-
13 tion company when the total generating capaci-
14 ty of all customer-generators with net metering
15 systems served by that local distribution com-
16 pany in that calendar year is equal to or in ex-
17 cess of 2 percent of the capacity necessary to
18 meet the local distribution company's average
19 forecasted aggregate customer peak demand for
20 that calendar year.

21 “(B) ONE PERCENT LIMITATION.—The
22 standard established under this subsection shall
23 not apply for a calendar year in the case of a
24 customer-generator served by a local distribu-
25 tion company when the total generating capaci-

1 ity of all customer-generators with net metering
2 systems served by that local distribution com-
3 pany in that calendar year using a single type
4 of qualified generation units (as listed in para-
5 graph (1)(C)(i)) is equal to or in excess of 1
6 percent of the capacity necessary to meet the
7 company's average forecasted aggregate cus-
8 tomer peak demand for that calendar year.

9 “(C) RECORDS AND NOTICE.— Each re-
10 tail electric supplier shall maintain, and make
11 available to the public, records of the total gen-
12 erating capacity of customer-generators of such
13 system that are using net metering, the type of
14 generating systems and energy source used by
15 the electric generating systems used by such
16 customer-generators. Each such retail electric
17 supplier shall notify the State regulatory au-
18 thority and the Federal Energy Regulatory
19 Commission when the total generating capacity
20 of such customer-generators is equal to or in
21 excess of the limitations set forth in subpara-
22 graph (B).

23 “(7) OWNERSHIP OF CREDITS.—For purposes
24 of Federal and State laws providing renewable en-
25 ergy credits or greenhouse gas credits, the customer-

1 generator with a qualified generating unit and net
2 metering shall be treated as owning and having title
3 to the renewable energy attributes, renewable energy
4 credits and greenhouse gas emission credits related
5 to any electricity produced by the qualified gener-
6 ating unit. No retail electric supplier shall claim title
7 to or ownership of any renewable energy attributes,
8 renewable energy credits or greenhouse gas emission
9 credits of the customer-generator as a result of
10 interconnecting the customer-generator or providing
11 or offering the customer-generator net metering.

12 “(8) SAFETY AND PERFORMANCE STAND-
13 ARDS.—(A) A qualified generation unit and net me-
14 tering system used by a customer-generator shall
15 meet all applicable safety and performance and reli-
16 ability standards established by the national elec-
17 trical code, the Institute of Electrical and Elec-
18 tronics Engineers, Underwriters Laboratories, or the
19 American National Standards Institute.

20 “(B) The Commission shall, after consultation
21 with State regulatory authorities and nonregulated
22 local distribution systems and after notice and op-
23 portunity for comment, prohibit by regulation the
24 imposition of additional charges by electric suppliers
25 and local distribution systems for equipment or serv-

1 ices for safety or performance that are additional to
2 those necessary to meet the standards and require-
3 ments referred to in subparagraph (A) of this para-
4 graph and subsection (e) of this section (relating to
5 interconnection).

6 “(9) DETERMINATION OF COMPLIANCE.—Any
7 State regulatory authority (with respect to each elec-
8 tric utility for which it has ratemaking authority),
9 and each nonregulated electric utility may apply to
10 the Commission for a determination that any State
11 net metering requirement or regulations complies
12 with the requirements of this subsection. In the ab-
13 sence of such a determination, the Commission, on
14 its own motion or pursuant to the petition of any in-
15 terested person, may, after notice and opportunity
16 for a hearing on the record, issue an order requiring
17 against any retail electric supplier or local distribu-
18 tion company, or both, to require compliance with
19 this subsection. Any person who violates any require-
20 ment of this subsection or any order of the Commis-
21 sion under this subsection shall be subject to civil
22 penalties in the amount of \$10,000 for each day
23 that such violation continues. Such penalties may be
24 assessed by the Commission, after notice and oppor-
25 tunity for hearing, in the same manner as penalties

1 are assessed under section 31(d) of the Federal
2 Power Act.

3 “(e) INTERCONNECTION STANDARDS.—

4 “(1) DEFINITIONS.—For purposes of this sub-
5 section, the terms defined in subsection (d) shall
6 apply.

7 “(2) MODEL STANDARDS.—(A) Within one year
8 after the enactment of this subsection the Commis-
9 sion shall publish model standards for the physical
10 connection between local distribution systems and
11 qualified generation units and electric generation
12 units that meet the requirements of subsection
13 (d)(1)(C) other than clause (ii) thereof and that do
14 not exceed 20,000 kilowatts of capacity. Such model
15 standards shall be designed to encourage the use of
16 qualified generation units and to ensure the safety
17 and reliability of such units and the local distribu-
18 tion systems interconnected with such units.

19 “(B) The model standards shall have two sepa-
20 rate expedited procedures for interconnecting quali-
21 fied generation units up to 15 kilowatts and a sepa-
22 rate standard that expedites interconnection for
23 qualified generation units up to 2000 kilowatts.
24 Such expedited procedures shall be based on those
25 best practices among the States that have adopted

1 interconnection standards. In designing such expedited procedures, the Commission shall consider
2 Interstate Renewable Energy Council Model Rule
3 MR-I2005.
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5 “(C) Within 2 years after the enactment of this
6 subsection, each State shall adopt the model standards published under this paragraph, with or without modification, and submit such standards to the
7 Commission for approval. The Commission shall approve a modification of the model standards only if
8 the Commission determines that such modification is consistent with or superior to the purpose of such
9 standards and is required by reason of local conditions.
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15 “(D) If standards have not been approved under this paragraph by the Commission for any
16 State within 2 years after the enactment of this subsection, the Commission shall, by rule or order, enforce the Commission’s model standards in such
17 State until such time as State standards are approved by the Commission.
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22 “(E) Within two years after the enactment of this subsection, and after notice and opportunity for
23 comment, the Commission shall publish an update of such model standards, considering changes in the
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1 underlying standards and technologies. Such updates
2 shall be made available to State regulatory authori-
3 ties for their consideration.

4 “(3) SAFETY, RELIABILITY, PERFORMANCE,
5 AND COST.—The standards under this section shall
6 establish those measures for the safety and reli-
7 ability of the affected equipment and local distribu-
8 tion systems as may be appropriate. Such standards
9 shall be consistent with all applicable safety and per-
10 formance standards established by the national elec-
11 trical code, the Institute of Electrical and Elec-
12 tronics Engineers, Underwriters Laboratories, or the
13 American National Standards Institute yet con-
14 stitute the minimum cost and technical burdens to
15 the interconnecting customer generator as the Com-
16 mission shall, by rule, prescribe.

17 “(4) ADDITIONAL CHARGES.—The model stand-
18 ards under this subsection prohibit the imposition of
19 additional charges by local distribution systems for
20 equipment or services for interconnection that are
21 additional to those necessary to meet such standards
22 and that are in excess of the charges and equipment
23 requirements identified in the best practices of
24 states with interconnection standards.

1 “(5) RELATIONSHIP TO EXISTING LAW REGARD-
2 ING INTERCONNECTION.—Nothing in this subsection
3 affects the application of section 111(d)(15) relating
4 to interconnection .

5 “(6) CONSUMER FRIENDLY CONTRACTS.—The
6 Commission shall promulgate regulations insuring
7 that simplified contracts will be used for the inter-
8 connection of electric energy by electric energy
9 transmission or distribution systems and generating
10 facilities that have a power production capacity not
11 greater than 2000 kilowatts and shall consider the
12 best practices for consumer friendly contracts adopt-
13 ed by States or national associations of state regu-
14 lators. Such contracts shall not require liability or
15 other insurance in excess of what is typically carried
16 by customer-generators for general liability.

17 “(7) ENFORCEMENT.—Any person who violates
18 any requirement of this subsection shall be subject
19 to civil penalties in the amount of \$10,000 for each
20 day that such violation continues. Such penalties
21 may be assessed by the Commission, after notice and
22 opportunity for hearing, in the same manner as pen-
23 alties are assessed under section 31(d) of the Fed-
24 eral Power Act.”.

1 **SEC. 4. RELATIONSHIP TO STATE LAW.**

2 Section 117 of the Public Utility Regulatory Policies
3 Act of 1978 is amended by striking “Nothing” and insert-
4 ing “(1) Except as provided in paragraph (2), nothing”
5 and by adding the following at the end thereof:

6 “(2) No State or nonregulated utility may adopt or
7 enforce any standard or requirement concerning net me-
8 tering or interconnection that restricts access to the elec-
9 tric power transmission or distribution system by qualified
10 generators beyond those standards and requirements iden-
11 tified in section 113. Nothing in this Act shall preclude
12 a State from adopting or enforcing incentives or require-
13 ments to encourage qualified generation and net metering
14 that are additional to or equivalent to those required
15 under section 113 or that afford greater access to the elec-
16 tric power transmission and distribution system by quali-
17 fied generators as defined in section 113 or afford greater
18 compensation or credit for electricity generated by such
19 generators.”.