112TH CONGRESS 1ST SESSION

H. R. 1598

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

April 15, 2011

Mr. Cardoza (for himself and Mr. Luján) introduced the following bill; which was referred to the Committee on Energy and Commerce, and in addition to the Committees on Oversight and Government Reform, Financial Services, and Transportation and Infrastructure, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

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,
- 3 SECTION 1. SHORT TITLE.
- 4 This Act may be cited as the "Solar Opportunity and
- 5 Local Access Rights Act".

| 1 | SEC. 2. NET METERING AND INTERCONNECTION STAND |
|-----|-----------------------------------------------------|
| 2 | ARDS. |
| 3 | (a) In General.—Section 113 of the Public Utility |
| 4 | Regulatory Policies Act of 1978 (16 U.S.C. 2623) is |
| 5 | amended by adding at the end the following: |
| 6 | "(d) NET METERING.— |
| 7 | "(1) Definitions.—In this subsection and |
| 8 | subsection (e): |
| 9 | "(A) Customer-generator.—The term |
| 10 | 'customer-generator' means the owner or oper- |
| 11 | ator of a qualified generation unit. |
| 12 | "(B) ELECTRIC GENERATION UNIT.—The |
| 13 | term 'electric generation unit' means— |
| 14 | "(i) a qualified generation unit; and |
| 15 | "(ii) any electric generation unit that |
| 16 | qualifies for net metering under a net me- |
| 17 | tering tariff or rule approved by a State. |
| 18 | "(C) LOCAL DISTRIBUTION SYSTEM.—The |
| 19 | term 'local distribution system' means any sys- |
| 20 | tem for the distribution of electric energy to the |
| 21 | ultimate consumer of the electricity, whether or |
| 22 | not the owner or operator of the system is a re- |
| 23 | tail electric supplier. |
| 24 | "(D) NET METERING.—The term 'net me- |
| 2.5 | tering' means the process of— |

| 1 | "(i) measuring the difference between |
|----|--------------------------------------------------|
| 2 | the electricity supplied to a customer-gen- |
| 3 | erator and the electricity generated by the |
| 4 | customer-generator that is delivered to a |
| 5 | local distribution system at the same point |
| 6 | of interconnection during an applicable |
| 7 | billing period; and |
| 8 | "(ii) providing an energy credit to the |
| 9 | customer-generator in the form of a kilo- |
| 10 | watt-hour credit for each kilowatt-hour or |
| 11 | energy produced by the customer-generator |
| 12 | from a qualified generation unit. |
| 13 | "(E) QUALIFIED GENERATION UNIT.—The |
| 14 | term 'qualified generation unit' means an elec- |
| 15 | tric energy generation unit that uses as the en- |
| 16 | ergy source of the unit solar energy to generate |
| 17 | electricity to heat or cool that— |
| 18 | "(i) has a generating capacity of not |
| 19 | more than 5,000 kilowatts; |
| 20 | "(ii) is located on premises that are |
| 21 | owned, operated, leased, or otherwise con- |
| 22 | trolled by the customer-generator; |
| 23 | "(iii) operates in parallel with the re- |
| 24 | tail electric supplier; and |

| 1 | "(iv) is intended primarily to offset all |
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| 2 | or part of the requirements of the cus- |
| 3 | tomer-generator for electric energy. |
| 4 | "(F) RETAIL ELECTRIC SUPPLIER.—The |
| 5 | term 'retail electric supplier' means any electric |
| 6 | utility that sells electric energy to the ultimate |
| 7 | consumer of the energy. |
| 8 | "(2) Adoption.—Not later than 1 year after |
| 9 | the date of enactment of this subsection, each State |
| 10 | regulatory authority (with respect to each electric |
| 11 | utility for which the State regulatory authority has |
| 12 | ratemaking authority), and each nonregulated elec- |
| 13 | tric utility, shall— |
| 14 | "(A) provide public notice and conduct a |
| 15 | hearing with respect to the standards estab- |
| 16 | lished under paragraph (3); and |
| 17 | "(B) on the basis of the hearing, adopt the |
| 18 | standard. |
| 19 | "(3) Establishment of net metering |
| 20 | STANDARD.— |
| 21 | "(A) In General.—Each retail electric |
| 22 | supplier shall offer to arrange (either directly or |
| 23 | through a local distribution company or other |
| 24 | third party) to make net metering available, on |
| 25 | a first-come, first-served basis, to each of the |

| 1 | retail customers of the retail electric supplier in |
|----|-----------------------------------------------------|
| 2 | accordance with the requirements described in |
| 3 | subparagraph (B) and other provisions of this |
| 4 | subsection. |
| 5 | "(B) REQUIREMENTS.—The requirements |
| 6 | referred to in subparagraph (A) are, with re- |
| 7 | spect to a retail electric supplier, that— |
| 8 | "(i) rates and charges and contract |
| 9 | terms and conditions for the sale of electric |
| 10 | energy to customer-generators shall be the |
| 11 | same as the rates and charges and con- |
| 12 | tract terms and conditions that would be |
| 13 | applicable if the customer-generator did |
| 14 | not own or operate a qualified generation |
| 15 | unit and use a net metering system; and |
| 16 | "(ii) each retail electric supplier shall |
| 17 | notify all of the retail customers of the re- |
| 18 | tail electric supplier of the standard estab- |
| 19 | lished under this paragraph as soon as |
| 20 | practicable after the adoption of the stand- |
| 21 | ard. |
| 22 | "(4) Net energy measurement.— |
| 23 | "(A) IN GENERAL.—Each retail electric |
| 24 | supplier shall arrange to provide to customer- |
| 25 | generators who qualify for net metering under |

subsection (b) an electrical energy meter capable of net metering and measuring, to the maximum extent practicable, the flow of electricity to or from the customer, using a single meter and single register.

"(B) IMPRACTICABILITY.—In a case in which it is not practicable to provide a meter to a customer-generator under subparagraph (A), a retail electric supplier (either directly or through a local distribution company or other third party) shall, at the expense of the retail electric supplier, install 1 or more of those electric energy meters for the customer-generators concerned.

"(5) Billing.—

"(A) IN GENERAL.—Each retail electric supplier subject to subsection (b) shall calculate the electric energy consumption for a customer using a net metering system in accordance with subparagraphs (B) through (D).

"(B) MEASUREMENT OF ELECTRICITY.—
The retail electric supplier shall measure the net electricity produced or consumed during the billing period using the metering installed in accordance with paragraph (4).

| 1 | "(C) BILLING AND CREDITING.— |
|----|-----------------------------------------------|
| 2 | "(i) BILLING.—If the electricity sup- |
| 3 | plied by the retail electric supplier exceeds |
| 4 | the electricity generated by the customer- |
| 5 | generator during the billing period, the |
| 6 | customer-generator shall be billed for the |
| 7 | net electric energy supplied by the retain |
| 8 | electric supplier in accordance with norma |
| 9 | billing practices. |
| 10 | "(ii) Crediting.— |
| 11 | "(I) In general.—If electric en- |
| 12 | ergy generated by the customer-gener- |
| 13 | ator exceeds the electric energy sup- |
| 14 | plied by the retail electric supplier |
| 15 | during the billing period, the cus- |
| 16 | tomer-generator shall be billed for the |
| 17 | appropriate customer charges for that |
| 18 | billing period and credited for the ex- |
| 19 | cess electric energy generated during |
| 20 | the billing period, with the credit ap- |
| 21 | pearing as a kilowatt-hour credit or |
| 22 | the bill for the following billing period |
| 23 | "(II) Application of cred- |
| 24 | ITS.—Any kilowatt-hour credits pro- |

vided to a customer-generator under

| 1 | this clause shall be applied to cus- |
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| 2 | tomer-generator electric energy con- |
| 3 | sumption on the following billing pe- |
| 4 | riod bill (except for a billing period |
| 5 | that ends in the next calendar year). |
| 6 | "(III) CARRYOVER OF UNUSED |
| 7 | CREDITS.—At the beginning of each |
| 8 | 12-month period, any unused kilo- |
| 9 | watt-hour credits remaining from the |
| 10 | preceding year will carry over to the |
| 11 | new 12-month period. |
| 12 | "(D) USE OF TIME-DIFFERENTIATED |
| 13 | RATES.— |
| 14 | "(i) In general.—Except as pro- |
| 15 | vided in clause (ii), if a customer-generator |
| 16 | is using a meter and retail billing arrange- |
| 17 | ment that has time-differentiated rates— |
| 18 | "(I) the kilowatt-hour credit shall |
| 19 | be based on the ratio representing the |
| 20 | difference in retail rates for each |
| 21 | time-of-use rate; or |
| 22 | "(II) the credits shall be reflected |
| 23 | on the bill of the customer-generator |
| 24 | as a monetary credit reflecting retail |
| 25 | rates at the time of generation of the |

electric energy by the customer-generator.

"(ii) DIFFERENT TARIFFS OR SERVICES.—A retail electric supplier shall offer
a customer-generator the choice of a timedifferentiated energy tariff rate or a
nontime-differentiated energy tariff rate, if
the retail electric supplier offers the choice
to customers in the same rate class as the
customer-generator.

"(6) Percent Limitations.—

"(A) 8 PERCENT LIMITATION.—The standard established under this subsection shall not apply for a calendar year in the case of a customer-generator served by a local distribution company if the total generating capacity of all customer-generators with net metering systems served by the local distribution company in the calendar year is equal to or more than 8 percent of the capacity necessary to meet the average forecasted aggregate customer peak demand of the company for the calendar year.

"(B) 4 PERCENT LIMITATION.—The standard established under this subsection shall not apply for a 12-month period in the case of a

1 customer-generator served by a local distribu-2 tion company if the total generating capacity of 3 all customer-generators with net metering sys-4 tems served by the local distribution company in the calendar year using a single type of 6 qualified generation unit is equal to or more 7 than 4 percent of the capacity necessary to 8 meet the forecasted aggregate customer peak 9 demand of the company for the calendar year. "(C) RECORDS AND NOTICE.— 10 11 "(i) Records.—Each retail electric 12 supplier shall maintain, and make available 13 to the public, records of— 14 "(I) the total generating capacity 15 of customer-generators of the system 16 of the retail electric supplier that are 17 using net metering; and 18 "(II) the type of generating sys-19 tems and energy source used by the 20 electric generating systems used by 21 the customer-generators. 22 "(ii) Notice.—Each such retail elec-23 tric supplier shall notify the State regu-24 latory authority and the Commission at 25 each time at which the total generating ca-

| 1 | pacity of the customer-generators of the |
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| 2 | retail electric supplier reaches a level that |
| 3 | equals or exceeds— |
| 4 | "(I) 75 percent of the limitation |
| 5 | specified in subparagraph (B); or |
| 6 | "(II) the limitation specified in |
| 7 | subparagraph (B). |
| 8 | "(7) Ownership of credits.— |
| 9 | "(A) In general.—For purposes of Fed- |
| 10 | eral and State laws providing renewable energy |
| 11 | credits or greenhouse gas credits, a customer- |
| 12 | generator with a qualified generation unit and |
| 13 | net metering shall be treated as owning and |
| 14 | having title to the renewable energy attributes, |
| 15 | renewable energy credits and greenhouse gas |
| 16 | emission credits relating to any electricity pro- |
| 17 | duced by the qualified generation unit. |
| 18 | "(B) RETAIL ELECTRIC SUPPLIERS.—No |
| 19 | retail electric supplier shall claim title to or |
| 20 | ownership of any renewable energy attributes, |
| 21 | renewable energy credits, or greenhouse gas |
| 22 | emission credits of a customer-generator as a |
| 23 | result of interconnecting the customer-generator |
| 24 | or providing or offering the customer-generator |
| 25 | net metering. |

| 1 | "(8) Safety and Performance Stand- |
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| 2 | ARDS.— |
| 3 | "(A) In general.—A qualified generation |
| 4 | unit and net metering system used by a cus- |
| 5 | tomer-generator shall meet all applicable safety |
| 6 | and performance and reliability standards es- |
| 7 | tablished by— |
| 8 | "(i) the national electrical code; |
| 9 | "(ii) the Institute of Electrical and |
| 10 | Electronics Engineers; |
| 11 | "(iii) Underwriters Laboratories; or |
| 12 | "(iv) the American National Stand- |
| 13 | ards Institute. |
| 14 | "(B) Additional Charges.—The Com- |
| 15 | mission shall, after consultation with State reg- |
| 16 | ulatory authorities and nonregulated local dis- |
| 17 | tribution systems and after notice and oppor- |
| 18 | tunity for comment, prohibit by regulation the |
| 19 | imposition of additional charges by retail elec- |
| 20 | tric suppliers and local distribution systems for |
| 21 | equipment or services for safety or performance |
| 22 | that are in addition to those necessary to meet |
| 23 | the standards and requirements referred to in |
| 24 | subparagraph (A) and subsection (e). |
| 25 | "(9) Determination of compliance.— |

1 "(A) IN GENERAL.—Any State regulatory
2 authority (with respect to each electric utility
3 for which the authority has ratemaking author4 ity), and each nonregulated electric utility, may
5 apply to the Commission for a determination
6 that any State net metering requirement or reg7 ulations complies with this subsection.

"(B) ORDERS.—In the absence of a determination under subparagraph (A), the Commission, on the motion of the Commission or pursuant to the petition of any interested person, may, after notice and opportunity for a hearing on the record, issue an order requiring against any retail electric supplier or local distribution company to require compliance with this subsection.

"(C) Enforcement.—

- "(i) In General.—Any person who violates this subsection shall be subject to a civil penalty in the amount of \$500 for each day that the violation continues.
- "(ii) Assessment.—The penalty may be assessed by the Commission, after notice and opportunity for hearing, in the same manner as penalties are assessed

| 1 | under section 31(d) of the Federal Power |
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| 2 | Act (16 U.S.C. 823b(d)). |
| 3 | "(e) Interconnection Standards.— |
| 4 | "(1) Model standards.— |
| 5 | "(A) IN GENERAL.—Not later than 1 year |
| 6 | after the date of enactment of this subsection, |
| 7 | the Commission shall publish model standards |
| 8 | for the physical connection between local dis- |
| 9 | tribution systems and qualified generation units |
| 10 | and electric generation units that— |
| 11 | "(i) are qualified generation units (as |
| 12 | defined in subsection $(d)(1)(E)$ other than |
| 13 | clause (ii) of subsection $(d)(1)(E)$); and |
| 14 | "(ii) do not exceed 5 megawatts of ca- |
| 15 | pacity. |
| 16 | "(B) Purposes.—The model standards |
| 17 | shall be designed to— |
| 18 | "(i) encourage the use of qualified |
| 19 | generation units; and |
| 20 | "(ii) ensure the safety and reliability |
| 21 | of the qualified generation units and the |
| 22 | local distribution systems interconnected |
| 23 | with the qualified generation units. |
| 24 | "(C) Procedures.— |

| 1 | "(i) In general.—The model stand- |
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| 2 | ards shall have 2 separate procedures, in- |
| 3 | cluding— |
| 4 | "(I) a standard for inter- |
| 5 | connecting qualified generation units |
| 6 | of not more than 15 kilowatts; and |
| 7 | "(II) a separate standard that |
| 8 | expedites interconnection for qualified |
| 9 | generation units of more than 15 kilo- |
| 10 | watts but not more than 5 megawatts. |
| 11 | "(ii) Best practices.—The proce- |
| 12 | dures shall be based on the best practices |
| 13 | that have been used in States that have |
| 14 | adopted interconnection standards. |
| 15 | "(iii) Model Rule.—In designing the |
| 16 | procedures, the Commission shall consider |
| 17 | Interstate Renewable Energy Council |
| 18 | Model Rule MR–I2005. |
| 19 | "(D) TIMELINE.— |
| 20 | "(i) In general.—Not later than 2 |
| 21 | years after the date of enactment of this |
| 22 | subsection, each State shall— |
| 23 | "(I) adopt the model standards |
| 24 | established under this paragraph, with |
| 25 | or without modification; and |

| 1 | "(II) submit the standards to the |
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| 2 | Commission for approval. |
| 3 | "(ii) APPROVAL OF MODIFICATION.— |
| 4 | The Commission shall approve a modifica- |
| 5 | tion of the model standards only if the |
| 6 | Commission determines that the modifica- |
| 7 | tion is— |
| 8 | "(I) consistent with or superior |
| 9 | to the purpose of the standards; and |
| 10 | "(II) required by reason of local |
| 11 | conditions. |
| 12 | "(E) Nonapproval of standards for a |
| 13 | STATE.—If standards have not been approved |
| 14 | under this paragraph by the Commission for |
| 15 | any State during the 2-year period beginning |
| 16 | on the date of enactment of this subsection, the |
| 17 | Commission shall, by rule or order, enforce the |
| 18 | model standards of the Commission in the State |
| 19 | until such time as State standards are approved |
| 20 | by the Commission. |
| 21 | "(F) UPDATES.— |
| 22 | "(i) In general.—Not later than 2 |
| 23 | years after the date of enactment of this |
| 24 | subsection and after notice and oppor- |
| 25 | tunity for comment, the Commission shall |

| 1 | publish an update of the model standards, |
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| 2 | after considering changes in the underlying |
| 3 | standards and technologies. |
| 4 | "(ii) AVAILABILITY.—The updates |
| 5 | shall be made available to State regulatory |
| 6 | authorities for the consideration of the au- |
| 7 | thorities. |
| 8 | "(2) Safety, reliability, performance, |
| 9 | AND COST.— |
| 10 | "(A) IN GENERAL.—The standards under |
| 11 | this subsection shall establish such measures |
| 12 | for the safety and reliability of the affected |
| 13 | equipment and local distribution systems as are |
| 14 | appropriate. |
| 15 | "(B) Administration.—The standards |
| 16 | shall— |
| 17 | "(i) be consistent with all applicable |
| 18 | safety and performance standards estab- |
| 19 | lished by— |
| 20 | "(I) the national electrical code; |
| 21 | "(II) the Institute of Electrical |
| 22 | and Electronics Engineers; |
| 23 | "(III) Underwriters Laboratories; |
| 24 | \mathbf{or} |

| 1 | "(IV) the American National |
|----|--------------------------------------------------------|
| 2 | Standards Institute; and |
| 3 | "(ii) impose not more than such min- |
| 4 | imum cost and technical burdens to the |
| 5 | interconnecting customer generator as the |
| 6 | Commission determines, by rule, are prac- |
| 7 | ticable. |
| 8 | "(3) Additional Charges.—The model stand- |
| 9 | ards under this subsection shall prohibit the imposi- |
| 10 | tion of additional charges by local distribution sys- |
| 11 | tems for equipment or services for interconnection |
| 12 | that are in excess of— |
| 13 | "(A) the charges necessary to meet the |
| 14 | standards; and |
| 15 | "(B) the charges and equipment require- |
| 16 | ments identified in the best practices of States |
| 17 | with interconnection standards. |
| 18 | "(4) Relationship to existing law regard- |
| 19 | ING INTERCONNECTION.—Nothing in this subsection |
| 20 | affects the application of section 111(d)(15) relating |
| 21 | to interconnection. |
| 22 | "(5) Consumer-friendly contracts.— |
| 23 | "(A) IN GENERAL.—The Commission |
| 24 | shall— |

| 1 | "(i) promulgate regulations that en- |
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| 2 | sure that simplified contracts will be used |
| 3 | for the interconnection of electric energy |
| 4 | by electric energy transmission or local dis- |
| 5 | tribution systems and generating facilities |
| 6 | that have a power production capacity of |
| 7 | not greater than 5,000 kilowatts; and |
| 8 | "(ii) consider the best practices for |
| 9 | consumer-friendly contracts that are used |
| 10 | by States or national associations of State |
| 11 | regulators. |
| 12 | "(B) Liability or insurance.—The con- |
| 13 | tracts shall not require liability or other insur- |
| 14 | ance in excess of the liability or insurance that |
| 15 | is typically carried by customer-generators for |
| 16 | general liability.". |
| 17 | (b) Conforming Amendment.—Section 1262 of the |
| 18 | Public Utility Holding Company Act of 2005 (42 U.S.C. |
| 19 | 16451) is amended by striking paragraph (5) and insert- |
| 20 | ing the following: |
| 21 | "(5) ELECTRIC UTILITY COMPANY.— |
| 22 | "(A) In General.—The term 'electric |
| 23 | utility company' means any company that owns |
| 24 | or operates facilities used for the generation. |

| 1 | transmission, or distribution of electric energy |
|----|-------------------------------------------------------|
| 2 | for sale. |
| 3 | "(B) Exclusion.—The term 'electric util- |
| 4 | ity company' does not include an electric gen- |
| 5 | eration unit (as defined in section 113(d) of the |
| 6 | Public Utility Regulatory Policies Act of |
| 7 | 1978).". |
| 8 | SEC. 3. RELATIONSHIP TO STATE LAW. |
| 9 | Section 117(b) of the Public Utility Regulatory Poli- |
| 10 | cies Act of 1978 (16 U.S.C. 2627(b)) is amended— |
| 11 | (1) by striking "Nothing" and inserting the fol- |
| 12 | lowing: |
| 13 | "(1) IN GENERAL.—Except as provided in para- |
| 14 | graph (2), nothing"; and |
| 15 | (2) by adding at the end the following: |
| 16 | "(2) Net metering and interconnection |
| 17 | STANDARDS.— |
| 18 | "(A) In general.—Subject to subpara- |
| 19 | graph (B), no State or nonregulated utility may |
| 20 | adopt or enforce any standard or requirement |
| 21 | concerning net metering or interconnection that |
| 22 | restricts access to the electric power trans- |
| 23 | mission or local distribution system by qualified |
| 24 | generators beyond those standards and require- |
| 25 | ments established under section 113. |

| 1 | "(B) Equivalent or greater access.— |
|----|-------------------------------------------------------|
| 2 | Nothing in this Act precludes a State from |
| 3 | adopting or enforcing incentives or require- |
| 4 | ments to encourage qualified generation and net |
| 5 | metering that— |
| 6 | "(i) are in addition to or equivalent to |
| 7 | incentives or requirements under section |
| 8 | 113; or |
| 9 | "(ii) afford greater access to the elec- |
| 10 | tric power transmission and local distribu- |
| 11 | tion systems by qualified generators (as |
| 12 | defined in section 113) or afford greater |
| 13 | compensation or credit for electricity gen- |
| 14 | erated by the qualified generators.". |
| 15 | SEC. 4. CONTRACTS FOR RENEWABLE ENERGY FOR EXECU- |
| 16 | TIVE AGENCIES. |
| 17 | Section 501(b)(1)(B) of title 40, United States Code, |
| 18 | is amended— |
| 19 | (1) by striking "A contract" and inserting the |
| 20 | following: |
| 21 | "(i) In general.—Except as pro- |
| 22 | vided in clause (ii), a contract"; and |
| 23 | (2) by adding at the end the following: |
| 24 | "(ii) Renewable energy.—A con- |
| 25 | tract for renewable energy (as defined in |

| 1 | section 203(b) of the Energy Policy Act of |
|----|--------------------------------------------------------|
| 2 | 2005 (42 U.S.C. 15852(b))) may be made |
| 3 | for a period of not more than 30 years.". |
| 4 | SEC. 5. SOLAR ENERGY SYSTEMS BUILDING PERMIT RE- |
| 5 | QUIREMENTS FOR RECEIPT OF COMMUNITY |
| 6 | DEVELOPMENT BLOCK GRANT FUNDS. |
| 7 | Section 104 of the Housing and Community Develop- |
| 8 | ment Act of 1974 (42 U.S.C. 5304) is amended by adding |
| 9 | at the end the following new subsection: |
| 10 | "(n) Requirements for Building Permits Re- |
| 11 | GARDING SOLAR ENERGY SYSTEMS.— |
| 12 | "(1) In General.—A grant under section 106 |
| 13 | for a fiscal year may be made only if the grantee |
| 14 | certifies to the Secretary that— |
| 15 | "(A) in the case of a grant under section |
| 16 | 106(a) for any Indian tribe or insular area, |
| 17 | during such fiscal year the cost of any permit |
| 18 | or license, for construction or installation of any |
| 19 | solar energy system for any structure, that is |
| 20 | required by the tribe or insular area or by any |
| 21 | other unit of general local government or other |
| 22 | political subdivision of such tribe or insular |
| 23 | area, complies with paragraph (2); |
| 24 | "(B) in the case of a grant under section |
| 25 | 106(b) for any metropolitan city or urban coun- |

ty, during such fiscal year the cost of any permit or license, for construction or installation of any solar energy system for any structure, that is required by the metropolitan city or urban county, or by any other political subdivision of such city or county, complies with paragraph (2); and

"(C) in the case of a grant under section 106(d) for any State, during such fiscal year the cost of any permit or license, for construction or installation of any solar energy system for any structure, that is required by the State, or by any other unit of general local government within any nonentitlement area of such State, or other political subdivision within any nonentitlement area of such State or such a unit of general local government, complies with paragraph (2).

"(2) LIMITATION ON COST.—The cost of permit or license for construction or installation of any solar energy system complies with this paragraph only if such cost does not exceed the following amount:

| 1 | "(A) RESIDENTIAL STRUCTURES.—In the |
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| 2 | case of a structure primarily for residential use, |
| 3 | \$500. |
| 4 | "(B) Nonresidential structures.—In |
| 5 | the case of a structure primarily for nonresiden- |
| 6 | tial use, 1.0 percent of the total cost of the in- |
| 7 | stallation or construction of the solar energy |
| 8 | system, but not in excess of \$10,000. |
| 9 | "(3) Noncompliance.—If the Secretary deter- |
| 10 | mines that a grantee of a grant made under section |
| 11 | 106 is not in compliance with a certification under |
| 12 | paragraph (1)— |
| 13 | "(A) the Secretary shall notify the grantee |
| 14 | of such determination; and |
| 15 | "(B) if the grantee has not corrected such |
| 16 | noncompliance before the expiration of the 6- |
| 17 | month period beginning upon notification under |
| 18 | subparagraph (A), such grantee shall not be eli- |
| 19 | gible for 5 percent of any amounts awarded |
| 20 | under a grant under section 106 for the first |
| 21 | fiscal year that commences after the expiration |
| 22 | of such 6-month period. |
| 23 | "(4) Solar energy system.—For purposes of |
| 24 | this subsection, the term 'solar energy system' |
| 25 | means, with respect to a structure, equipment that |

| 1 | uses solar energy to generate electricity for, or to |
|----|---------------------------------------------------------|
| 2 | heat or cool (or provide hot water for use in), such |
| 3 | structure.". |
| 4 | SEC. 6. PROHIBITION OF RESTRICTIONS ON RESIDENTIAL |
| 5 | INSTALLATION OF SOLAR ENERGY SYSTEM. |
| 6 | (a) REGULATIONS.—Within 180 days after the enact- |
| 7 | ment of this Act, the Secretary of Housing and Urban |
| 8 | Development, in consultation with the Secretary of En- |
| 9 | ergy, shall issue regulations— |
| 10 | (1) to prohibit any private covenant, contract |
| 11 | provision, lease provision, homeowners' association |
| 12 | rule or bylaw, or similar restriction, that impairs the |
| 13 | ability of the owner or lessee of any residential |
| 14 | structure designed for occupancy by 1 family to in- |
| 15 | stall, construct, maintain, or use a solar energy sys- |
| 16 | tem on such residential property; and |
| 17 | (2) to require that whenever any such covenant, |
| 18 | provision, rule or bylaw, or restriction requires ap- |
| 19 | proval for the installation or use of a solar energy |
| 20 | system, the application for approval shall be proc- |
| 21 | essed and approved by the appropriate approving en- |
| 22 | tity in the same manner as an application for ap- |
| 23 | proval of an architectural modification to the prop- |
| | |

erty, and shall not be willfully avoided or delayed.

| 1 | (b) Contents.—The regulations required under sub- |
|----|---------------------------------------------------------|
| 2 | section (a) shall provide that— |
| 3 | (1) such a covenant, provision, rule or bylaw, or |
| 4 | restriction impairs the installation, construction, |
| 5 | maintenance, or use of a solar energy system if it— |
| 6 | (A) unreasonably delays or prevents instal- |
| 7 | lation, maintenance, or use; |
| 8 | (B) unreasonably increases the cost of in- |
| 9 | stallation, maintenance, or use; or |
| 10 | (C) precludes use of such a system; and |
| 11 | (2) any fee or cost imposed on the owner or les- |
| 12 | see of such a residential structure by such a cov- |
| 13 | enant, provision, rule or bylaw, or restriction shall |
| 14 | be considered unreasonable if— |
| 15 | (A) such fee or cost is not reasonable in |
| 16 | comparison to the cost of the solar energy sys- |
| 17 | tem or the value of its use; or |
| 18 | (B) treatment of solar energy systems by |
| 19 | the covenant, provision, rule or bylaw, or re- |
| 20 | striction is not reasonable in comparison with |
| 21 | treatment of comparable systems by the same |
| 22 | covenant, provision, rule or bylaw, or restric- |
| 23 | tion. |
| 24 | (c) Solar Energy System.—For purposes of this |
| 25 | section, the term "solar energy system" means, with re- |

| 1 | spect to a structure, equipment that uses solar energy to |
|----|--------------------------------------------------------------|
| 2 | generate electricity for, or to heat or cool (or provide hot |
| 3 | water for use in), such structure. |
| 4 | SEC. 7. CENTER FOR ADVANCED SOLAR RESEARCH. |
| 5 | (a) Establishment.—The Secretary of Energy |
| 6 | shall establish a Center for Advanced Solar Research and |
| 7 | Development within the Office of Energy Efficiency and |
| 8 | Renewable Energy to carry out an advanced solar research |
| 9 | and development program to coordinate and promote the |
| 10 | further development of solar technologies. This program |
| 11 | shall include a competitive grant program for academia |
| 12 | and private research in solar technologies. The Center |
| 13 | shall serve as a clearinghouse for United States solar re- |
| 14 | search and development, supporting research, develop- |
| 15 | ment, and demonstration of advanced solar energy sys- |
| 16 | tems. The Center shall advance— |
| 17 | (1) performance, reliability, environmental im- |
| 18 | pact, and cost-competitiveness of solar thermal and |
| 19 | photovoltaic technologies; |
| 20 | (2) large-scale photovoltaic and solar thermal |
| 21 | power plants; |
| 22 | (3) thermal and electricity storage technologies |
| 23 | to enhance the dispatchability of solar energy; |
| 24 | (4) fuel production technologies using solar en- |
| 25 | ergy; |

| 1 | (5) innovation in manufacturing techniques and |
|----|------------------------------------------------------------|
| 2 | processes for solar energy systems; |
| 3 | (6) materials and devices to improve photo- |
| 4 | voltaic conversion efficiencies and reduce costs; |
| 5 | (7) policy analysis aimed at increasing use of |
| 6 | solar energy technologies, and monitoring the effec- |
| 7 | tiveness of existing policies; and |
| 8 | (8) comprehensive solar systems integration. |
| 9 | (b) Authorization of Appropriations.—There |
| 10 | are authorized to be appropriated to the Secretary of En- |
| 11 | ergy for carrying out this section \$25,000,000 for each |
| 12 | of the fiscal years 2012 through 2016, to remain available |
| 13 | until expended. |

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