

114TH CONGRESS  
1ST SESSION

# S. 1713

To require the Secretary of Energy to provide loans and grants for solar installations in low-income and underserved areas.

---

IN THE SENATE OF THE UNITED STATES

JULY 7, 2015

Mr. SANDERS (for himself and Mr. MERKLEY) introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

---

## A BILL

To require the Secretary of Energy to provide loans and grants for solar installations in low-income and underserved areas.

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 “Low-Income Solar  
5 Act”.

6 **SEC. 2. LOAN AND GRANT PROGRAM FOR SOLAR INSTALLA-  
7 TIONS IN LOW-INCOME AND UNDERSERVED  
8 AREAS.**

9       (a) DEFINITIONS.—In this section:

1                             (1) ADMINISTRATIVE EXPENSES.—The term  
2       “administrative expenses” has such meaning as may  
3       be established by the Secretary.

4                             (2) COMMUNITY SOLAR FACILITY.—The term  
5       “community solar facility” means a community-based distributed photovoltaic solar electricity generating facility that, as determined by the Secretary—

6                                 (A) is owned by a subscriber organization;  
7                                 (B) has a nameplate rating of 2 megawatts  
8       or less;

9                                 (C) is located in or near a community of  
10      subscribers to whom the beneficial use of the  
11      electricity generated by the facility belongs; and

12                                 (D) reserves not less than 25 percent of  
13      the quantity of electricity generated by the fa-  
14      cility for low-income households that are sub-  
15      scribers to the facility.

16                             (3) GRANT-ELIGIBLE HOUSEHOLD.—The term  
17       “grant-eligible household” means a household the  
18       members of which—

19                                 (A) earn an income equal to 80 percent or  
20      less of the applicable area median income, as  
21      defined for the applicable year by the Secretary  
22      of Housing and Urban Development; and

23                                 (B) reside in an owner-occupied home.

1                             (4) INDIAN TRIBE.—The term “Indian tribe”  
2     means any Indian tribe, band, nation, or other orga-  
3     nized group or community, including any Alaskan  
4     Native village or regional or village corporation (as  
5     defined in, or established pursuant to, the Alaska  
6     Native Claims Settlement Act (43 U.S.C. 1601 et  
7     seq.)), that is recognized as eligible for the special  
8     programs and services provided by the United States  
9     to Indians because of their status as Indians.

10                            (5) LOAN-ELIGIBLE ENTITY.—The term “loan-  
11     eligible entity” means—

- 12                           (A) a nonprofit entity;
- 13                           (B) a unit of State, territorial, or local  
14     government;
- 15                           (C) an Indian tribe;
- 16                           (D) a rural community (as defined in sec-  
17     tion 343(a) of the Consolidated Farm and  
18     Rural Development Act (7 U.S.C. 1991(a));  
19     and
- 20                           (E) any other national or regional entity  
21     that—

22                           (i) deploys a safe, high-quality photo-  
23     voltaic solar electricity generating facility  
24     for consumers under a model that maxi-

1                   mizes energy savings to those consumers;  
2                   and

21 (A) a generator that creates electricity  
22 from light photons; and

23 (B) the accompanying hardware enabling  
24 that electricity to flow—

(j) onto the electric grid; or

(ii) into an energy storage device.

(10) SUBSCRIBER.—The term “subscriber” means an electricity consumer who—

(A) owns a subscription, or an equivalent unit or share of the capacity or generation, of a community solar facility;

(B) has identified 1 or more physical locations—

11 (i) to which the subscription will be  
12 attributed;

(C) confirms the status of the consumer as a grant-eligible household for each applicable fiscal year.

(12) UNDERSERVED AREA.—The term “underserved area” means a geographical area with low or no photovoltaic solar deployment, as determined by the Secretary.

12 (b) ESTABLISHMENT OF LOAN AND GRANT PRO-  
13 GRAM—

14                   (1) IN GENERAL.—The Secretary shall establish  
15                   a program under which the Secretary shall provide  
16                   loans and grants to grant-eligible households and  
17                   loan-eligible entities for use in accordance with this  
18                   section.

available under subparagraph (A) for a fiscal year shall be used to provide loans to loan-eligible entities for—

1       use more than 50 percent of those amounts to  
2       provide those grants.

3           (3) GOALS AND ACCOUNTABILITY.—

4               (A) IN GENERAL.—In providing loans and  
5       grants under this subsection, the Secretary  
6       shall take such actions as may be necessary to  
7       ensure that—

8                   (i) the assistance provided under this  
9       subsection is used to facilitate and encourage  
10      innovative solar installation and financing models, under which the recipients  
11      develop and install photovoltaic solar electricity generating facilities that provide significant savings to low-income households while providing job training or community engagement opportunities with respect to each solar system installed;

12                   (ii) loan and grant recipients shall—

13                          (I) have installed not less than 600 kilowatts of photovoltaic solar energy during the 2-year period preceding the date on which the loan or grant is provided to ensure consumer protection; or

(II) until the goal described in subclause (I) is achieved, enter into partnership with an entity that—

(aa) has not less than 2 years of experience deploying solar photovoltaic systems for low-income households in a manner that maximizes the savings benefits of solar access; and

(bb) was primarily responsible for the installation of at least 2 megawatts of solar energy during the 2-year period preceding the date on which the loan or grant is provided;

(iii) the photovoltaic solar electricity generating facilities installed using assistance provided under this subsection are safe, high-quality systems that comply with local building and safety codes and standards;

(iv) the provision of assistance under this subsection establishes and fosters a partnership between the Federal Government and grant-eligible households and

loan-eligible entities, resulting in efficient development of solar installations with—

(I) minimal governmental intervention;

(II) limited governmental regulation; and

(III) significant involvement by  
nonprofit and private entities;

(v) solar projects installed using assistance provided under this subsection—

16 (vi) assistance provided under this  
17 subsection prioritizes development in—

18 (I) areas with low photovoltaic  
19 penetration;

## (II) rural areas:

### 21 (III) Indian tribal areas; and

22 (IV) other underserved areas, in-  
23 cluding Alaskan Native and Appa-  
24 lachian communities;

1 (vii) solar systems are developed using  
2 assistance provided under this subsection  
3 on a geographically diverse basis among  
4 the grant-eligible households and loan-eli-  
5 gible entities; and

(viii) to the maximum extent practicable, solar installation activities for which assistance is provided under this section leverage, or connect grant-eligible households to, federally or locally subsidized weatherization and energy efficiency efforts that meet or exceed local energy efficiency standards.

23 (4) COMMUNITY SOLAR FACILITIES.—

1           section only to offset the costs of generation  
2           and provision of solar energy to low-income  
3           households that are subscribers of the commu-  
4           nity solar facility.

5           (B) TRANSFER AND ASSIGNMENT OF SUB-  
6           SCRIPTIONS.—A subscription to a community  
7           solar facility that receives assistance under this  
8           subsection may be transferred or assigned by  
9           the subscriber to—

- 10                 (i) any subscriber organization; or  
11                 (ii) any individual or entity who qual-  
12                 ifies to be a subscriber to that community  
13                 solar facility.

14           (C) TREATMENT.—

15                 (i) IN GENERAL.—No owner, oper-  
16                 ator, or subscriber of a community solar  
17                 facility that receives assistance under this  
18                 subsection shall be subject to regulation by  
19                 the Federal Energy Regulatory Commis-  
20                 sion solely as a result of an interest in the  
21                 community solar facility.

22                 (ii) PRICE OF SUBSCRIPTION.—The  
23                 price paid for any subscription to a com-  
24                 munity solar facility shall not be subject to

1                   the regulation of any Federal department,  
2                   agency, or commission.

3                   (c) NATIONAL COMPETITION.—

4                   (1) IN GENERAL.—The Secretary shall select  
5                   grant-eligible households and loan-eligible entities to  
6                   receive loans or grants under this section through a  
7                   nationwide competitive process, to be established by  
8                   the Secretary.

9                   (2) APPLICATIONS.—To be eligible to receive a  
10                  loan or grant under this section, a grant-eligible  
11                  household or loan-eligible entity shall submit to the  
12                  Secretary an application at such time, in such man-  
13                  ner, and containing such information as the Sec-  
14                  retary may require.

15                  (3) REQUIREMENTS.—In selecting grant-eligible  
16                  households and loan-eligible entities to receive loans  
17                  or grants under this section, the Secretary shall, at  
18                  a minimum—

19                   (A) require that the grant-eligible house-  
20                  hold or loan-eligible entity—

21                   (i) enter into a grant or loan agree-  
22                  ment, as applicable, under subsection (d);  
23                  and

24                   (ii) has obtained financial commit-  
25                  ments (or has demonstrated the capacity

1                   to obtain financial commitments) necessary  
2                   to comply with that agreement;

3                   (B) ensure that loans and grants are pro-  
4                   vided, and amounts are used, in a manner that  
5                   results in geographical diversity throughout the  
6                   United States and within States, territories,  
7                   and Indian tribal land among photovoltaic solar  
8                   electricity generating facilities installed using  
9                   the assistance provided under this section;

10                  (C) to the maximum extent practicable, ex-  
11                  pand photovoltaic solar energy availability to—

12                   (i) geographical areas, throughout the  
13                   United States and within States, terri-  
14                   tories, and Indian tribal land, with—

15                   (I) low photovoltaic solar pene-  
16                   tration; or

17                   (II) areas with a higher cost bur-  
18                   den with respect to the deployment or  
19                   installation of photovoltaic solar elec-  
20                   tricity generating facilities;

21                   (ii) rural communities;

22                   (iii) Indian tribes; and

23                   (iv) other underserved areas, including  
24                   Appalachian and Alaska Native commu-  
25                   nities;

- 1                             (D) take into account the warranty period  
2                             and quality of the applicable photovoltaic solar  
3                             electricity generating facility equipment and any  
4                             necessary interconnecting equipment; and  
5                             (E) ensure all calculations for estimated  
6                             household energy savings are based solely on  
7                             electricity offsets from the photovoltaic solar  
8                             electricity generating facilities.

9                             (d) LOAN AND GRANT AGREEMENTS.—

10                             (1) IN GENERAL.—As a condition of receiving a  
11                             loan or grant under this section, a grant-eligible  
12                             household or loan-eligible entity shall enter into a  
13                             loan or grant agreement, as applicable, with the Sec-  
14                             retary.

15                             (2) REQUIREMENTS.—A loan or grant agree-  
16                             ment under this subsection shall—

17                                 (A) require the grant-eligible household or  
18                             loan-eligible entity—

19                                     (i) to use the assistance provided  
20                             under this section only in accordance with  
21                             this section;

22                                     (ii) to install such number of solar  
23                             systems with such defined capacity target  
24                             (expressed in megawatts) as may be estab-  
25                             lished by the Secretary, taking into consid-

1                   eration the costs associated with carrying  
2                   out loan or grant obligations in the areas  
3                   in which the solar systems will be devel-  
4                   oped;

5                   (iii) to use the assistance in a manner  
6                   that leverages other sources of funding  
7                   (other than loans or grants under this sec-  
8                   tion), including private or public funds, in  
9                   developing the solar projects; and

10                  (iv) to establish loan terms, if applica-  
11                  ble, that maximize the benefit to the low-  
12                  income households receiving solar energy  
13                  from the loan-eligible entity;

14                  (B) require the Secretary to rescind any  
15                  amounts provided to the grant-eligible house-  
16                  hold or loan-eligible entity that are not used  
17                  during the 2-year period beginning on the date  
18                  on which the amounts are initially distributed  
19                  to the grant-eligible household or loan-eligible  
20                  entity, except in any case in which the grant-  
21                  eligible household or loan-eligible entity has  
22                  demonstrated to the satisfaction of the Sec-  
23                  retary that a longer period, not to exceed 3  
24                  years after the date of initial distribution, is  
25                  necessary to deliver proposed services;

(C) for a loan provided under this section,  
establish—

(ii) a payout time that maximizes the savings to customers during the effective period of the agreement; and

(D) contain such other terms as the Secretary may require to ensure compliance with the requirements of this section.

13       (e) USE.—A grant-eligible household or loan-eligible  
14 entity shall use a loan or grant provided under this section  
15 only for the following activities, for the purpose of devel-  
16 oping new photovoltaic solar projects in the United States  
17 for low-income households and individuals who otherwise  
18 would likely be unable to afford or purchase photovoltaic  
19 solar systems:

(1) PHOTOVOLTAIC SOLAR EQUIPMENT AND IN-  
STALLATION.—To pay the costs of—

(A) solar equipment, including only photo-voltaic solar equipment and storage and all hardware or software components relating to safely producing, monitoring, and connecting

1           the system to the electric grid or onsite storage;

2           and

3           (B) installation, including all direct labor  
4           associated with installing the photovoltaic solar  
5           equipment.

6           (2) JOB TRAINING.—To fund onsite job training  
7           and community or volunteer engagement, includ-  
8           ing—

9               (A) only job training costs directly associ-  
10           ated with the solar projects funded under this  
11           section; and

12               (B) job training opportunities that may  
13           cover the full range of the solar value chain,  
14           such as marketing and outreach, customer ac-  
15           quisition, system design, and installation posi-  
16           tions.

17           (3) DEPLOYMENT SUPPORT.—To fund entities  
18           that have a demonstrated ability, as determined by  
19           the Secretary—

20               (A) to advise State and local entities re-  
21           garding low-income solar policy, regulatory, and  
22           program design to continue and expand the  
23           work of the entities;

24               (B) to foster community outreach and edu-  
25           cation regarding the benefits of photovoltaic

1           solar energy for low-income and disadvantaged  
2           communities; or

3           (C) to provide apprenticeship program op-  
4           portunities registered and approved by—

5               (i) the Office of Apprenticeship of the  
6               Department of Labor pursuant to part 29  
7               of title 29, Code of Federal Regulations (or  
8               successor regulations); or

9               (ii) a State Apprenticeship Agency  
10              recognized by that Office.

11           (4) ADMINISTRATION.—To pay the administra-  
12           tive expenses of the grant-eligible household or loan-  
13           eligible entity, including preproject feasibility efforts,  
14           in carrying out the duties of the Secretary associ-  
15           ated with delivering proposed services, subject to the  
16           requirement that not more than 15 percent of the  
17           total amount of the assistance provided to the grant-  
18           eligible household or loan-eligible entity under this  
19           section may be used for administrative expenses.

20           (f) COMPLIANCE.—

21               (1) RECORDS AND AUDITS.—During the period  
22               beginning on the date of initial distribution to a  
23               grant-eligible household or loan-eligible entity of a  
24               loan or grant under this section and ending on the  
25               termination date of the loan or grant under sub-

1       section (g), the grant-eligible household or loan-eligible  
2       entity shall maintain such records and adopt  
3       such administrative practices as the Secretary may  
4       require to ensure compliance with the requirements  
5       of this section and the applicable loan or grant  
6       agreement.

7                     (2) DETERMINATION BY SECRETARY.—If the  
8       Secretary determines that a grant-eligible household  
9       or loan-eligible entity that receives a grant or loan  
10      under this section has not, during the 2-year period  
11      beginning on the date of initial distribution to the  
12      grant-eligible household or loan-eligible entity of the  
13      assistance (or such longer period as is established  
14      under subsection (d)(2)(B)), substantially fulfilled  
15      the obligations of the grant-eligible household or  
16      loan-eligible entity under the applicable loan or  
17      grant agreement, the Secretary shall—

18                     (A) rescind the balance of any funds dis-  
19       tributed to, but not used by, the grant-eligible  
20       household or loan-eligible entity under this sec-  
21       tion; and

22                     (B) use those amounts to provide other  
23       loans or grants in accordance with this section.

24                     (g) TERMINATION.—The Secretary shall terminate a  
25       loan or grant provided under this section on a determina-

1 tion that the total amount of the loan or grant (excluding  
2 any interest, fees, and other earnings of the loan or grant)  
3 has been—

4 (1) fully expended by the grant-eligible house-  
5 hold or loan-eligible entity; or  
6 (2) returned to the Secretary.

7 (h) REGULATIONS.—Not later than 90 days after the  
8 date of enactment of this Act, the Secretary shall promul-  
9 gate such regulations as the Secretary determines to be  
10 necessary to carry out this section, to take effect on the  
11 date of promulgation.

12 (i) FUNDING.—There is authorized to be appro-  
13 priated to the Secretary to carry out this section  
14 \$200,000,000 for each of fiscal years 2016 through 2030,  
15 to remain available until expended.

○