AMENDMENT TO H.R. 2774 OFFERED BY MR. BARTLETT OF MARYLAND

At the end of the bill, insert the following new section:

1	SEC. 6. DAYLIGHTING SYSTEMS AND DIRECT SOLAR LIGHT
2	PIPE TECHNOLOGY.
3	(a) Establishment.—The Secretary shall establish
4	a program of research and development to provide assist-
5	ance in the demonstration and commercial application of
6	direct solar renewable energy sources to provide alter-
7	natives to traditional power generation for lighting and il-
8	lumination, including light pipe technology, and to pro-
9	mote greater energy conservation and improved efficiency.
10	All direct solar renewable energy devices supported under
11	this program shall have the capability to provide measur-
12	able data on the amount of kilowatt-hours saved over the
13	traditionally powered light sources they have replaced.
14	(b) Reporting.—The Secretary shall transmit to
15	Congress an annual report assessing the measurable data
16	derived from each project in the direct solar renewable en-
17	ergy sources program and the energy savings resulting
18	from its use.

(c) Definitions.—For purposes of this section—

19

1	(1) the term "direct solar renewable energy"
2	means energy from a device that converts sunlight
3	into useable light within a building, tunnel, or other
4	enclosed structure, replacing artificial light gen-
5	erated by a light fixture and doing so without the
6	conversion of the sunlight into another form of en-
7	ergy; and
8	(2) the term "light pipe" means a device de-
9	signed to transport visible solar radiation from its
10	collection point to the interior of a building while ex-
11	cluding interior heat gain in the nonheating season.
12	(d) AUTHORIZATION OF APPROPRIATIONS.—There
13	are authorized to be appropriated to the Secretary for car-
14	rying out this section \$3,500,000 for each of the fiscal
15	years 2008 through 2012.

AMENDMENT TO H.R. 2774 OFFERED BY MR. BARTLETT OF MARYLAND

At the end of the bill, insert the following new section:

1	SEC. 6. SOLAR AIR CONDITIONING RESEARCH AND DEVEL-
2	OPMENT PROGRAM.
3	(a) Establishment.—The Secretary shall establish
4	a research, development, and demonstration program to
5	promote less costly and more reliable decentralized distrib-
6	uted solar-powered air conditioning for individuals and
7	businesses.
8	(b) AUTHORIZED ACTIVITIES.—Grants made avail-
9	able under this section may be used to support the fol-
0	lowing activities:
11	(1) Advancing solar thermal collectors, includ-
12	ing concentrating solar thermal and electric systems,
13	flat plate and evacuated tube collector performance.
14	(2) Achieving technical and economic integra-
15	tion of solar-powered distributed air-conditioning
16	systems with existing hot water and storage systems
17	for residential applications.
18	(3) Designing and demonstrating mass manu-
19	facturing capability to reduce costs of modular

	2
1	standardized solar-powered distributed air condi-
2	tioning systems and components.
3	(4) Improving the efficiency of solar-powered
4	distributed air-conditioning to increase the effective-
5	ness of solar-powered absorption chillers, solar-driv-
6	en compressors and condensors, and cost-effective
7	precooling approaches.
8	(5) Researching and comparing performance of
9	solar-powered distributed air conditioning systems in
10	different regions of the country, including potential
11	integration with other onsite systems, such as solar,
12	biogas, geothermal heat pumps, and propane assist
13	or combined propane fuel cells, with a goal to de-
14	velop site-specific energy production and manage-
15	ment systems that ease fuel and peak utility loading.
16	(c) Cost Sharing.—The non-Federal share of re-
17	search and development projects supported under this sec-
18	tion shall be not less than 20 percent, and for demonstra-
19	tion projects shall be not less than 50 percent.
20	(d) AUTHORIZATION OF APPROPRIATIONS.—There
21	are authorized to be appropriated to the Secretary for car-
22	rying out this section \$2,500,000 for each of the fiscal

23 years 2008 through 2012.

AMENDMENT TO H.R. 2774 OFFERED BY MS. EDDIE BERNICE JOHNSON OF TEXAS

Page 4, line 16, redesignate subsection (d) as subsection (e).

Page 4, after line 15, insert the following new subsection:

- 1 (d) REPORT.—The Secretary shall make public, via
- 2 the website of the Department or upon request, informa-
- 3 tion on the name and institution for all grants awarded
- 4 under this section, including a brief description of the
- 5 project as well as the grant award amount.

AMENDMENT TO H.R. 2774 OFFERED BY MS. EDDIE BERNICE JOHNSON OF TEXAS

Page 2, line 13, strike "approaches for management and" and insert "cost-effective approaches for management and large-scale".

AMENDMENT TO H.R. 2774 OFFERED BY MS. EDDIE BERNICE JOHNSON OF TEXAS

Page 4, line 15, insert "Due consideration shall be given to women, underrepresented minorities, and persons with disabilities." after "path to certification.".

AMENDMENT TO H.R. 2774 OFFERED BY MR. SMITH OF TEXAS

At the end of the bill, add the following new section:

1	SEC. 6. PHOTOVOLTAIC DEMONSTRATION PROGRAM.
2	(a) In General.—The Secretary shall establish a
3	program of grants to States to demonstrate advanced pho-
4	tovoltaic technology.
5	(b) REQUIREMENTS.—
6	(1) ABILITY TO MEET REQUIREMENTS.—To re-
7	ceive funding under the program under this section,
8	a State must submit a proposal that demonstrates,
9	to the satisfaction of the Secretary, that the State
10	will meet the requirements of subsection (f).
11	(2) Compliance with requirements.—If a
12	State has received funding under this section for the
13	preceding year, the State must demonstrate, to the
14	satisfaction of the Secretary, that it complied with
15	the requirements of subsection (f) in carrying out
16	the program during that preceding year, and that it
17	will do so in the future, before it can receive further
18	funding under this section.
19	9 (3) Funding Allocation.—Each State sub-
2	o mitting a qualifying proposal shall receive funding

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- 1 under the program based on the proportion of
- 2 United States population in the State according to
- the 2000 census. In each fiscal year, the portion of
- 4 funds attributable under this paragraph to States
- 5 that have not submitted qualifying proposals in the
- 6 time and manner specified by the Secretary shall be
- 7 distributed pro rata to the States that have sub-
- 8 mitted qualifying proposals in the specified time and
- 9 manner.
- 10 (c) Competition.—If more than \$25,000,000 is
- 11 available for the program under this section for any fiscal
- 12 year, the Secretary shall allocate 75 percent of the total
- 13 amount of funds available according to subsection (b)(3),
- 14 and shall award the remaining 25 percent on a competitive
- 15 basis to the States with the proposals the Secretary con-
- 16 siders most likely to encourage the widespread adoption
- 17 of photovoltaic technologies.
- 18 (d) Proposals.—Not later than 6 months after the
- 19 date of enactment of this Act, and in each subsequent fis-
- 20 cal year for the life of the program, the Secretary shall
- 21 solicit proposals from the States to participate in the pro-
- 22 gram under this section.
- 23 (e) Competitive Criteria.—In awarding funds in
- 24 a competitive allocation under subsection (c), the Sec-
- 25 retary shall consider—

1	(1) the likelihood of a proposal to encourage the
2	demonstration of, or lower the costs of, advanced
3	photovoltaic technologies; and
4	(2) the extent to which a proposal is likely to—
5	(A) maximize the amount of photovoltaics
6	demonstrated;
7	(B) maximize the proportion of non-Fed-
8	eral cost share; and
9	(C) limit State administrative costs.
10	(f) STATE PROGRAM.—A program operated by a
11	State with funding under this section shall provide com-
12	petitive awards for the demonstration of advanced photo-
13	voltaic technologies. Each State program shall—
14	(1) require a contribution of at least 60 percent
15	per award from non-Federal sources, which may in-
16	clude any combination of State, local, and private
17	funds, except that at least 10 percent of the funding
18	must be supplied by the State;
19	(2) endeavor to fund recipients in the commer-
20	cial, industrial, institutional, governmental, and resi-
21	dential sectors;
22	(3) limit State administrative costs to no more
23	than 10 percent of the grant;
24	(4) report annually to the Secretary on—
25	(A) the amount of funds disbursed;

1	(B) the amount of photovoltaics purchased;
2	and
3	(C) the results of the monitoring under
4	paragraph (5);
5	(5) provide for measurement and verification of
6	the output of a representative sample of the
7	photovoltaics systems demonstrated throughout the
8	average working life of the systems, or at least 20
9	years; and
10	(6) require that applicant buildings must have
11-	received an independent energy efficiency audit dur-
12	ing the 6-month period preceding the filing of the
13	application.
14	(g) UNEXPENDED FUNDS.—If a State fails to expend
15	any funds received under subsection (b) or (c) within 3
16	years of receipt, such remaining funds shall be returned
17	to the Treasury.
18	(h) Reports.—The Secretary shall report to Con-
19	gress 5 years after funds are first distributed to the States
20	under this section—
21	(1) the amount of photovoltaics demonstrated;
22	(2) the number of projects undertaken;
23	(3) the administrative costs of the program;

1	(4) the amount of funds that each State has
2	not received because of a failure to submit a quali-
3	fying proposal, as described in subsection (b)(3);
4	(5) the results of the monitoring under sub-
5	section $(f)(5)$; and
6	(6) the total amount of funds distributed, in-
7	cluding a breakdown by State.
8	(i) AUTHORIZATION OF APPROPRIATIONS.—There
9	are authorized to be appropriated to the Secretary for the
10	purposes of carrying out this section—
11	(1) \$15,000,000 for fiscal year 2008;
12	(2) \$30,000,000 for fiscal year 2009;
13	(3) \$45,000,000 for fiscal year 2010;
14	(4) \$60,000,000 for fiscal year 2011; and
15	(5) \$70,000,000 for fiscal year 2012.

AMENDMENT TO H.R. 2774 OFFERED BY MR. WU OF OREGON

Page 3, line 15, insert ", including curriculum for community colleges" after "environmental conditions".