[DISCUSSION DRAFT]

110TH CONGRESS 1ST SESSION	H.R.	
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To establish a grant program to assist residential electricity providers with the establishment and operation of targeted residential tree-planting programs, and for other purposes

IN THE HOUSE OF REPRESENTATIVES

Ms.	Matsui introduced	the	following	bill;	which	was	referred	to	the
	Committee on								

A BILL

To establish a grant program to assist residential electricity providers with the establishment and operation of targeted residential tree-planting programs, 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.
- This Act may be cited as the "Energy Efficiency
- 5 Through Trees Act".
- 6 SEC. 2. FINDINGS.
- 7 The Congress finds that:

1	(1) The utility sector is the largest single
2	source of greenhouse gas emissions in the United
3	States today, producing approximately one-third of
4	the country's emissions.
5	(2) Heating and cooling homes accounts for
6	nearly 60 percent of residential electricity usage in
7	the United States.
8	(3) Shade trees planted in strategic locations
9	can reduce residential cooling costs by as much as
10	30 percent.
11	(4) Shade trees have significant clean-air bene-
12	fits associated with them: every 100 large trees re-
13	moves about 200 pounds of particulate matter, 300
14	pounds of ozone, and five tons of carbon dioxide
15	from the air each year.
16	(5) Tree cover on private property and on
17	newly-developed land has declined since the 1970s,
18	even while emissions from transportation and indus-
19	try have been rising.
20	(6) In over a dozen test cities across the United
21	States, increasing urban tree cover has generated
22	between two and five dollars in savings for every dol-
23	lar invested in such tree planting.
24	(7) The Sacramento Municipal Utility District
25	has partnered with the Sacramento Tree Foundation

1	to plant over 400,000 free shade trees since 1990,
2	resulting in an estimated savings of enough electrical
3	capacity to power 9,000 residential homes.
4	SEC. 3. DEFINITIONS.
5	As used in this Act:
6	(1) The term "Secretary" refers to the Sec-
7	retary of the Department of Energy.
8	(2) The term "retail power" means any entity
9	authorized under applicable State or Federal law to
10	generate, distribute, and provide retail electricity,
11	natural gas, or fuel oil service.
12	(3) The term "tree-planting organization"
13	means any not-for-profit group which exists, in
14	whole or in part, to:
15	(A) expand urban and residential tree
16	cover;
17	(B) distribute young trees for planting;
18	(C) increase awareness of the environ-
19	mental and energy-related benefits of trees; or
20	(D) educate the public about proper tree
21	planting, care, and maintenance strategies.
22	SEC. 4. PURPOSES.
23	The purpose of this Act is to establish a grant pro-
24	gram to assist residential energy providers with the estab-

1	lishment and operation of targeted residential tree-plant-
2	ing programs, for the following purposes:
3	(1) Reducing the peak-load demand for elec-
4	tricity in residential areas during the summer
5	months by:
6	(A) limiting the extent to which sunlight
7	radiates onto residential homes; and
8	(B) increasing the natural cooling effect of
9	shade cover provided by strategically-planted
10	trees.
11	(2) Reducing the demand for energy in residen-
12	tial areas during the winter months by blocking cold
13	winds from reaching residential homes and lowering
14	interior temperatures.
15	(3) Protecting public health by removing harm-
16	ful particulate matter pollution from the air.
17	(4) Utilizing the natural photosynthetic process
18	of leaves to absorb carbon dioxide in the ambient air
19	and thus help forestall climate change.
20	(5) Lowering electric bills for residential rate
21	payers by limiting consumption without reducing
22	benefits.
23	(6) Relieving financial and demand pressure or
24	residential power providers that stems from large
25	peak-load ratepayer demand.

1 SEC. 5. GENERAL AUTHORITY.

2	The Secretary is authorized to provide financial, tech-
3	nical, and related assistance to residential power providers
4	to assist with the establishment of new, or continued oper-
5	ation of existing, targeted residential tree-planting pro-
6	grams. Only those programs which utilize targeted, stra-
7	tegic tree-siting guidelines to plant trees in relation to res-
8	idence location, sunlight, and prevailing wind direction
9	shall be eligible for assistance under this Act. In order
10	to qualify for assistance under this Act, a tree-planting
11	program shall meet each of the following requirements:
12	(1) Provide free or discounted shade-providing
13	or wind-reducing trees to residential consumers in-
14	terested in lowering their home energy costs.
15	(2) Optimize the electricity-consumption reduc-
16	tion benefit of each tree by planting in strategic lo-
17	cations around a given residence.
18	(3) Provide maximum amounts of shade during
19	summer intervals when residences are exposed to the
20	most sun intensity.
21	(4) Utilize the wind-reducing capabilities of
22	trees to shield homes from prevailing winter winds.
23	(5) Use the best available science to create tree-
24	siting guidelines which dictate where particular tree
25	species are best planted in order to achieve max-
26	imum reductions in consumer energy demand.

1	(6) Receive certification from the Secretary that
2	tree-planting programs in question are designed to
3	achieve the above goals.
4	SEC. 6. AGREEMENTS BETWEEN ELECTRICITY PROVIDERS
5	AND TREE-PLANTING ORGANIZATIONS.
6	In providing assistance under this Act, the Secretary
7	is authorized to award grants only to residential power
8	providers that have entered into binding legal agreements
9	with nonprofit tree-planting organizations. When award-
10	ing grants under this Act, the Secretary shall give pref-
11	erence to utilities that partner with local tree-planting or-
12	ganizations. Legal agreements between power providers
13	and tree-planting organizations shall set forth conditions
14	under which nonprofit tree-planting organizations shall—
15	(1) provide technical assistance drafting general
16	tree-siting guidelines and choosing the most effective
17	species of tree to plant in a given location;
18	(2) coordinate volunteer recruitment to assist
19	with the physical act of planting trees in residential
20	locations;
21	(3) undertake public awareness campaigns to
22	educate local residents about the benefits, cost sav-
23	ings, and availability of free shade trees;
24	(4) provide periodic tree-maintenance services
25	to residential participants;

1	(5) serve as the point of contact for existing
2	and potential residential participants who have ques-
3	tions or concerns regarding said tree-planting pro-
4	gram;
5	(6) require tree recipients to sign agreements
6	committing to no less than three years of voluntary
7	stewardship and care of provided trees; and
8	(7) regularly monitor and report on the sur-
9	vival, growth, and overall health of provided trees.
10	SEC. 7. COST-SHARE PROGRAM.
11	The Federal share of support for projects funded
12	under this Act shall not exceed 50 percent of the cost of
13	such project and shall be provided on a matching basis.
14	The nonFederal share of such costs may be paid or con-
15	tributed by any governmental or nongovernmental entity
16	other than from funds derived directly or indirectly from
17	an agency or instrumentality of the United States.
18	SEC. 8. RULEMAKING.
19	The Secretary shall be authorized to solicit comments
20	and initiate a rulemaking period that shall last no more
21	than nine months after the date of enactment of this Act.
22	At the conclusion of this period, the Secretary shall pro-
23	mulgate a rule which shall regulate the process by which
24	local power providers may apply for Federal support under
25	this Act.

1 SEC. 9. NONDUPLICITY.

- 2 Nothing in this Act shall be construed to supersede,
- 3 duplicate, cancel, or negate the programs or authorities
- 4 provided under section 9 of the Cooperative Forestry As-
- 5 sistance Act of 1978 (92 Stat. 369; Public Law 95-313;
- 6 16 U.S.C. § 2105).

7 SEC. 10. AUTHORIZATION OF APPROPRIATIONS.

- 8 There are hereby authorized to be appropriated such
- 9 sums as may be necessary for the implementation of this
- 10 Act.