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(Original Signature of Member)

119TH CONGRESS
2D SESSION

H. R. _____

To reduce the heat island effect and associated ground level ozone pollution
from Federal facilities, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

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

A BILL

To reduce the heat island effect and associated ground level
ozone pollution from Federal facilities, 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 “Heat Island Reduction
5 Act”.

6 **SEC. 2. HEAT ISLAND REDUCTION PLANS FOR FEDERAL**
7 **PROPERTIES AND FACILITIES.**

8 (a) HEAT ISLAND REDUCTION PLANS.—

1 (1) IN GENERAL.—Not later than 6 months
2 after the date of the enactment of this section, the
3 head of each agency shall develop a heat island re-
4 duction plan that covers each Federal property and
5 facility that is—

6 (A) under the possession or control of the
7 agency; and

8 (B) located in an area designated under
9 section 107(d) of the Clean Air Act (42 U.S.C.
10 7407(d)) as nonattainment with respect to a
11 national ambient air quality standard for ozone.

12 (2) CONTENTS.—Each heat island reduction
13 plan developed pursuant to paragraph (1) shall in-
14 clude the following:

15 (A) An identification of each Federal prop-
16 erty and facility covered by the plan.

17 (B) An assessment of appropriate meas-
18 ures to reduce surface temperatures, ambient
19 air temperatures, building cooling demand, or
20 pedestrian heat exposure at each such property
21 or facility.

22 (C) An identification of opportunities, as
23 appropriate for the property or facility, to do
24 the following:

1 (i) Increase tree canopy and other
2 vegetation, including through species and
3 planting locations appropriate for local cli-
4 mate and site conditions.

5 (ii) Increase shade over paved areas,
6 pedestrian areas, parking areas, and build-
7 ing surfaces.

8 (iii) Install cool roofs, vegetated roofs,
9 or other roofing systems designed to re-
10 duce heat absorption or building cooling
11 demand.

12 (iv) Use cool, permeable, or other pav-
13 ing materials or techniques that reduce
14 heat absorption or promote evaporative
15 cooling, where appropriate.

16 (v) Incorporate green infrastructure
17 or other measures that provide heat-reduc-
18 tion, stormwater-management, energy-effi-
19 ciency, or related benefits.

20 (vi) Pursue third-party certification,
21 such as Leadership in Energy and Envi-
22 ronmental Design (known as LEED) or
23 the Sustainable SITES Initiative (known
24 as SITES), where such a certification
25 would support or demonstrate implementa-

1 tion of heat island mitigation measures at
2 the property or facility.

3 (vii) Use other cost-effective tech-
4 nologies or practices that reduce the heat
5 island effect.

6 (D) Consideration, in selecting measures
7 under subparagraph (C), of the following:

8 (i) Local climate conditions.

9 (ii) Tree canopy and vegetation.

10 (iii) Surface materials and land uses.

11 (iv) Pedestrian heat exposure.

12 (v) Water availability and mainte-
13 nance requirements.

14 (vi) The expected effectiveness and
15 useful life of each measure.

16 (vii) Opportunities to coordinate heat
17 island mitigation measures with scheduled
18 maintenance, repair, renovation, construc-
19 tion, or landscaping projects.

20 (viii) Any potential adverse or unin-
21 tended effects of a proposed measure.

22 (E) An establishment of priorities among
23 covered properties and facilities based on the
24 expected benefits and feasibility of heat island
25 mitigation measures.

1 (b) IMPLEMENTATION PLANS.—

2 (1) IN GENERAL.—Not later than 180 days
3 after developing a heat island reduction plan pursu-
4 ant to subsection (a), the head of each agency shall
5 develop and submit to the Administrator of General
6 Services an implementation plan for carrying out
7 such heat island reduction plan.

8 (2) CONTENTS.—Each implementation plan
9 shall include the following:

10 (A) Each action the agency plans to take
11 to carry out the heat island reduction plan.

12 (B) The Federal properties and facilities at
13 which such actions are expected to be carried
14 out.

15 (C) Milestones and estimated timeframes
16 for carrying out such actions.

17 (D) The office or component of the agency
18 responsible for carrying out such actions.

19 (E) Estimated costs associated with car-
20 rying out such actions.

21 (F) Available or anticipated sources of
22 funding for such actions.

23 (G) Opportunities to carry out such ac-
24 tions as part of scheduled maintenance, repair,

1 renovation, construction, landscaping, or other
2 capital projects.

3 (H) Any barrier, additional authority, or
4 resource the agency determines is necessary to
5 carry out the heat island reduction plan.

6 (3) UPDATES.—Each agency shall update the
7 implementation plan required under paragraph (1)
8 not less frequently than once every 2 years and sub-
9 mit each such updated plan to the Administrator.

10 (c) IMPLEMENTATION.—In carrying out a heat island
11 reduction plan under subsection (a), the head of an agency
12 shall, subject to the availability of appropriations and
13 other applicable law, prioritize cost-effective measures
14 identified in the implementation plan developed pursuant
15 to subsection (b).

16 (d) GSA ANNUAL REPORT.—

17 (1) IN GENERAL.—Not later than one year
18 after the deadline for submission of implementation
19 plans under subsection (b), and annually thereafter,
20 the Administrator of General Services shall submit
21 to the Committee on Oversight and Government Re-
22 form of the House of Representatives and the Com-
23 mittee on Homeland Security and Governmental Af-
24 fairs of the Senate a report that assesses the
25 progress of agencies in carrying out this section.

1 (2) CONTENTS.—Each report submitted under
2 paragraph (1) shall include the following:

3 (A) The number of agencies that have de-
4 veloped heat island reduction plans pursuant to
5 subsection (a).

6 (B) The number of agencies that have sub-
7 mitted implementation plans pursuant to sub-
8 section (b).

9 (C) The number and location of Federal
10 properties and facilities covered by such plans.

11 (D) A summary of the heat island mitiga-
12 tion measures agencies have implemented or
13 plan to implement.

14 (E) The progress of agencies toward mile-
15 stones identified in such implementation plans.

16 (F) To the extent practicable, information
17 on estimated or measured reductions in surface
18 temperature, ambient air temperature, building
19 energy use, or other relevant measures of effec-
20 tiveness.

21 (G) Estimated expenditures associated
22 with carrying out heat island reduction meas-
23 ures.

24 (H) Common barriers identified by agen-
25 cies to carrying out such measures.

1 (I) Any recommendations of the Adminis-
2 trator for improving or accelerating implemen-
3 tation of heat island reduction measures at
4 Federal properties and facilities.

5 (e) COORDINATION.—The Administrator of General
6 Services may provide technical assistance to agencies in
7 developing and carrying out heat island reduction plans
8 and implementation plans under this section, including by
9 disseminating best practices and information regarding
10 cost-effective heat island mitigation measures.

11 (f) RULE OF CONSTRUCTION.—Nothing in this sec-
12 tion may be construed to require an agency to carry out
13 a particular heat island mitigation measure if the head
14 of the agency determines that the measure—

15 (1) is not appropriate for the climate, design,
16 use, safety, historic character, security requirements,
17 or other site-specific conditions of the property or fa-
18 cility; or

19 (2) would not be cost-effective over the expected
20 useful life of the measure.

21 (g) AGENCY DEFINED.—In this section, the term
22 “agency” has the meaning given that term in section 551
23 of title 5, United States Code.