

AMENDMENT TO
RULES COMMITTEE PRINT 116-63
OFFERED BY MS. VELÁZQUEZ OF NEW YORK

At the end of subtitle A of title I, add the following part:

1 **PART 4—GREEN ROOF SYSTEMS**

2 **SEC. 1131. GRANTS FOR PLANNING ASSISTANCE.**

3 (a) GRANT PROGRAM AUTHORIZED.—The Secretary,
4 taking into account recommendations from the Director
5 of the Weatherization and Intergovernmental Programs
6 Office of the Department of Energy, shall make grants
7 to eligible entities to pay the costs of planning assistance
8 for a green roof system described in subsection (b).

9 (b) ALLOWABLE USE OF FUNDS FOR GRANTS FOR
10 PLANNING ASSISTANCE.—An eligible entity receiving a
11 grant under this section shall use the grant for the fol-
12 lowing purposes:

13 (1) Identification of opportunities to use green
14 roofs.

15 (2) Assessment of vertical structures, or pos-
16 sible vertical structures, to support vegetation and
17 ground-level areas that support vegetation in the
18 same school building.

1 (3) Permitting and siting issues, including po-
2 tential synergy of the green roof with green roofs,
3 green walls, and rain gardens in neighboring build-
4 ings.

5 (4) Business planning and financial analysis.

6 (5) Architectural and engineering analysis, in-
7 cluding analysis of—

8 (A) a site to determine required structural
9 loading capacity;

10 (B) plans for material transportation to
11 roof;

12 (C) the distribution of material and equip-
13 ment during construction;

14 (D) plans for reinforcement of roof;

15 (E) plans for structural safety;

16 (F) plans to increase available loading;

17 (G) plans to determine need and location
18 of vegetation-free zones for access to mechan-
19 ical equipment, roof parapets, and other com-
20 mon roof structures;

21 (H) plans for need for permanent or semi-
22 permanent irrigation systems to provide supple-
23 mental water during times of drought; and

24 (I) plans to determine need for a leak de-
25 tection system.

1 (6) Cost estimation, including—

2 (A) technical information on the cost of
3 construction (market prices, labor, materials,
4 and transportation);

5 (B) a life cycle cost analysis;

6 (C) an estimate of operational costs; and

7 (D) an estimate of costs to include rec-
8 reational space in order to meet the require-
9 ments of title III of the Americans with Disabil-
10 ities Act of 1990 (42 U.S.C. 12101 et seq.).

11 (7) Grant writing services, including reimburse-
12 ment for grant writing services used to obtain a
13 grant under this section.

14 (c) APPLICATION.—To receive a grant under this sec-
15 tion, an eligible entity shall submit to the Secretary an
16 application at such time, in such manner, and containing
17 such information as the Secretary may require.

18 **SEC. 1132. PUBLIC SCHOOL GREEN ROOF INSTALLATION**

19 **GRANT PROGRAM.**

20 (a) PUBLIC SCHOOL GREEN ROOF INSTALLATION
21 PROGRAM.—Not later than 1 year after the date of the
22 enactment of this Act, the Secretary shall award grants,
23 on a competitive basis, to eligible entities to install an ex-
24 tensive or intensive green roof system.

1 (b) APPLICATION.—To receive a grant under sub-
2 section (a), an eligible entity shall submit to the Secretary
3 an application at such time, in such manner, and con-
4 taining such information as the Secretary may require,
5 which shall include—

6 (1) a letter of compliance from local regulatory
7 bodies to—

8 (A) certify a complete review of proposed
9 design to ensure that it meets municipal re-
10 quirements;

11 (B) ensure that installation is carried out
12 in accordance with local standards and incentive
13 program performance requirements (if avail-
14 able);

15 (C) determine requirements for issuing
16 permits;

17 (D) determine occupancy requirements for
18 fire codes; and

19 (E) ensure projects meet the minimum
20 performance standard specified within the Liv-
21 ing Architecture Performance Tool (LAPT) rat-
22 ing system for green roofs and walls; and

23 (2) a complete description of the eligible enti-
24 ty's plan for the installation and operation of a
25 green roof system, including descriptions of—

1 (A) the hiring criteria and qualifications
2 for green roof installation and maintenance per-
3 sonnel with the inclusion of local workforce
4 trainees, including at least one Green Roof Pro-
5 fessional (GRP) as accredited by the Green
6 Roof Industry Association;

7 (B) the methods for the green roof instal-
8 lation and maintenance;

9 (C) a plan for utilization of the green roof,
10 including weatherization, recreational space,
11 education, food production, or whether access
12 and utilization will be extended to members of
13 the neighborhood;

14 (D) a plan for intensive green roof applica-
15 tions that include recreational space use to
16 meet the requirements of title III of the Ameri-
17 cans with Disabilities Act of 1990 (42 U.S.C.
18 12101 et seq.);

19 (E) a strategy for increasing energy effi-
20 ciency and reducing heat reflection; and

21 (F) a plan for hiring low-income individ-
22 uals or individuals registered with a one-stop
23 career center for installation and maintenance
24 positions.

25 (3) the eligible entity's maintenance plan.

1 (c) PRIORITY.—In awarding grants under subsection
2 (a), the Secretary shall give priority to eligible entities in
3 which not fewer than 30 percent of students served by
4 such entities are from families with incomes below the pov-
5 erty line.

6 (d) INSTALLATION.—Not later than 4 years after re-
7 ceiving a grant under subsection (a), an eligible entity
8 shall complete installation of a green roof system.

9 (e) MAINTENANCE OF INFRASTRUCTURE.—In addi-
10 tion to receiving a grant under subsection (a), each eligible
11 entity that meets the installation requirements of sub-
12 section (d) shall receive additional funding for an addi-
13 tional 4-year period for maintenance activities, which may
14 include the following:

15 (1) Conducting routine inspections throughout
16 the year to monitor the condition of the green roof
17 and surrounding roof areas and structures, espe-
18 cially after storm events.

19 (2) Monitoring plant health and replacing any
20 plants, as necessary.

21 (3) Noting any areas impacted by rooftop
22 microclimates (including wind erosion, shady spots,
23 exhaust vents, drip edges, and intense reflected
24 light) where replanting may not be successful, and

1 alternate planting types, planting techniques, or an
2 alternate approach may be necessary.

3 (4) Watering nonirrigated systems during pro-
4 longed drought periods and maintenance of any irri-
5 gation system for the green roof.

6 (5) Addressing weeds and pests when needed
7 using organic, essential-oils based products.

8 (6) For intensive green roofs where more highly
9 diverse plant groups and types are used, ensuring
10 plant maintenance and care is generally consistent
11 with the requirements of ground-level landscaping,
12 including consultation with a horticulturalist, agron-
13 omist, or landscape professional.

14 (7) Engaging local workforce trainees.

15 **SEC. 1133. REPORT TO THE CONGRESS.**

16 Not later than 1 year after the date of the enactment
17 of this Act, the Secretary shall submit a report to the
18 Committee on Energy and Commerce of the House of
19 Representatives and the Committee on Health, Education,
20 Labor, and Pensions of the Senate, and make publically
21 available on the internet website of the Department of En-
22 ergy, a report describing—

23 (1) each grant application received under this
24 part; and

1 (2) any grants awarded under this part, includ-
2 ing—

3 (A) the name and location of the eligible
4 entity;

5 (B) the total amount of the grant;

6 (C) the date on which the grant was
7 awarded; and

8 (D) any other data the Secretary deter-
9 mines to be necessary for an evaluation of the
10 benefits of a public school green roof.

11 **SEC. 1134. DEFINITIONS.**

12 In this part:

13 (1) **ELEMENTARY SCHOOL.**—The term “elemen-
14 tary school” has the meaning given the term in sec-
15 tion 8101 of the Elementary and Secondary Edu-
16 cation Act of 1965 (20 U.S.C. 7801), except that
17 such section shall be applied as if the term “State”,
18 as it appears in such section, had the meaning given
19 such term in this section.

20 (2) **ELIGIBLE ENTITY.**—The term “eligible enti-
21 ty” means—

22 (A) a public elementary school or sec-
23 ondary school;

24 (B) a local educational agency; or

1 (C) a partnership between a nonprofit or-
2 ganization and an entity described in para-
3 graphs (1) or (2).

4 (3) GREEN ROOF.—The term “green roof”
5 means a layer of vegetation planted over a water-
6 proofing system or waterproof management practice
7 that is installed on top of a flat or slightly sloped
8 roof that may support plant growth, including—

9 (A) an extensive green roof with a growing
10 media layer that is up to 6 inches thick; or

11 (B) an intensive green roof with a growing
12 media layer that is 6.0 to 48 inches thick.

13 (4) INDIAN TRIBE.—The term “Indian tribe”
14 has the meaning given the term in section 4 of the
15 Indian Self-Determination and Education Assistance
16 Act (25 U.S.C. 5304).

17 (5) LOCAL EDUCATIONAL AGENCY.—The term
18 “local educational agency” has the meaning given
19 the term in section 8101 of the Elementary and Sec-
20 ondary Education Act of 1965 (20 U.S.C. 7801), ex-
21 cept that such section shall be applied as if the term
22 “State”, as it appears in such section, had the
23 meaning given such term in this section.

24 (6) LOW-INCOME INDIVIDUAL.—The term “low-
25 income individual” means, with respect to any cal-

1 endar year, any individual who lives in a household
2 that has a gross income that does not exceed 300
3 percent of the poverty line.

4 (7) NONPROFIT ORGANIZATION.—The term
5 “nonprofit organization” means an organization de-
6 scribed in section 501(c)(3) of the Internal Revenue
7 Code of 1986 which is exempt from taxation under
8 section 501(a) of such Code.

9 (8) ONE-STOP CAREER CENTER.—The term
10 “one-stop career center” means a comprehensive
11 one-stop center described in section 361.305 of title
12 34, Code of Federal Regulations (as in effect on the
13 date of the enactment of this Act).

14 (9) POVERTY LINE.—The term “poverty line”
15 has the meaning given the term in section 8101 of
16 the Elementary and Secondary Education Act of
17 1965 (20 U.S.C. 7801).

18 (10) SECONDARY SCHOOL.—The term “sec-
19 ondary school” has the meaning given the term in
20 section 8101 of the Elementary and Secondary Edu-
21 cation Act of 1965 (20 U.S.C. 7801), except that
22 such section shall be applied as if the term “State”,
23 as it appears in such section, had the meaning given
24 such term in this section.

1 (11) SECRETARY.—The term “Secretary”
2 means the Secretary of Energy.

3 (12) STATE.—The term “State” means each of
4 the 50 States and the District of Columbia, each of
5 territories, and each of the Indian tribes.

6 (13) TERRITORY.—The term “territory” means
7 the United States Virgin Islands, Puerto Rico,
8 Guam, American Samoa, and the Commonwealth of
9 the Northern Mariana Islands.

10 (14) WEATHERIZATION.—The term “weather-
11 ization” means the practice of protecting a building
12 and its interior from the elements, particularly from
13 sunlight, precipitation, and wind, and of modifying
14 a building to reduce energy consumption and opti-
15 mize energy efficiency.

16 **SEC. 1135. AUTHORIZATION OF APPROPRIATIONS.**

17 (a) APPROPRIATION FOR GRANTS FOR PLANNING AS-
18 SISTANCE.—There is authorized to be appropriated
19 \$100,000,000 to carry out section 1131 for each of fiscal
20 years 2021 through 2025.

21 (b) APPROPRIATION FOR GREEN ROOF INSTALLA-
22 TION.—There is authorized to be appropriated
23 \$300,000,000 to award grants under section 1132(a) for
24 each of fiscal years 2022 through 2025.

1 (c) APPROPRIATION FOR MAINTENANCE OF INFRA-
2 STRUCTURE.—There is authorized to be appropriated
3 \$100,000,000 to provide funds under section 1132(e) for
4 each of fiscal years 2021 through 2025.

