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:

PART 4—GREEN ROOF SYSTEMS

SEC. 1131. GRANTS FOR PLANNING ASSISTANCE.

(a) Grant Program Authorized.—The Secretary, taking into account recommendations from the Director of the Weatherization and Intergovernmental Programs Office of the Department of Energy, shall make grants to eligible entities to pay the costs of planning assistance for a green roof system described in subsection (b).

(b) Allowable Use of Funds for Grants for Planning Assistance.—An eligible entity receiving a grant under this section shall use the grant for the following purposes:

(1) Identification of opportunities to use green roofs.

(2) Assessment of vertical structures, or possible vertical structures, to support vegetation and ground-level areas that support vegetation in the same school building.
(3) Permitting and siting issues, including potential synergy of the green roof with green roofs, green walls, and rain gardens in neighboring buildings.

(4) Business planning and financial analysis.

(5) Architectural and engineering analysis, including analysis of—

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

(B) plans for material transportation to roof;

(C) the distribution of material and equipment during construction;

(D) plans for reinforcement of roof;

(E) plans for structural safety;

(F) plans to increase available loading;

(G) plans to determine need and location of vegetation-free zones for access to mechanical equipment, roof parapets, and other common roof structures;

(H) plans for need for permanent or semi-permanent irrigation systems to provide supplemental water during times of drought; and

(I) plans to determine need for a leak detection system.
(6) Cost estimation, including—

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

(B) a life cycle cost analysis;

(C) an estimate of operational costs; and

(D) an estimate of costs to include recreational space in order to meet the requirements of title III of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.).

(7) Grant writing services, including reimbursement for grant writing services used to obtain a grant under this section.

(e) APPLICATION.—To receive a grant under this section, an eligible entity shall submit to the Secretary an application at such time, in such manner, and containing such information as the Secretary may require.

SEC. 1132. PUBLIC SCHOOL GREEN ROOF INSTALLATION GRANT PROGRAM.

(a) Public School Green Roof Installation Program.—Not later than 1 year after the date of the enactment of this Act, the Secretary shall award grants, on a competitive basis, to eligible entities to install an extensive or intensive green roof system.
(b) APPLICATION.—To receive a grant under subsection (a), an eligible entity shall submit to the Secretary an application at such time, in such manner, and containing such information as the Secretary may require, which shall include—

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

(A) certify a complete review of proposed design to ensure that it meets municipal requirements;

(B) ensure that installation is carried out in accordance with local standards and incentive program performance requirements (if available);

(C) determine requirements for issuing permits;

(D) determine occupancy requirements for fire codes; and

(E) ensure projects meet the minimum performance standard specified within the Living Architecture Performance Tool (LAPT) rating system for green roofs and walls; and

(2) a complete description of the eligible entity’s plan for the installation and operation of a green roof system, including descriptions of—
(A) the hiring criteria and qualifications for green roof installation and maintenance personnel with the inclusion of local workforce trainees, including at least one Green Roof Professional (GRP) as accredited by the Green Roof Industry Association;

(B) the methods for the green roof installation and maintenance;

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

(D) a plan for intensive green roof applications that include recreational space use to meet the requirements of title III of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.);

(E) a strategy for increasing energy efficiency and reducing heat reflection; and

(F) a plan for hiring low-income individuals or individuals registered with a one-stop career center for installation and maintenance positions.

(3) the eligible entity’s maintenance plan.
(c) PRIORITY.—In awarding grants under subsection (a), the Secretary shall give priority to eligible entities in which not fewer than 30 percent of students served by such entities are from families with incomes below the poverty line.

(d) INSTALLATION.—Not later than 4 years after receiving a grant under subsection (a), an eligible entity shall complete installation of a green roof system.

(e) MAINTENANCE OF INFRASTRUCTURE.—In addition to receiving a grant under subsection (a), each eligible entity that meets the installation requirements of subsection (d) shall receive additional funding for an additional 4-year period for maintenance activities, which may include the following:

(1) Conducting routine inspections throughout the year to monitor the condition of the green roof and surrounding roof areas and structures, especially after storm events.

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

(3) Noting any areas impacted by rooftop microclimates (including wind erosion, shady spots, exhaust vents, drip edges, and intense reflected light) where replanting may not be successful, and
alternate planting types, planting techniques, or an alternate approach may be necessary.

(4) Watering nonirrigated systems during prolonged drought periods and maintenance of any irrigation system for the green roof.


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

(7) Engaging local workforce trainees.

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

Not later than 1 year after the date of the enactment of this Act, the Secretary shall submit a report to the Committee on Energy and Commerce of the House of Representatives and the Committee on Health, Education, Labor, and Pensions of the Senate, and make publically available on the internet website of the Department of Energy, a report describing—

(1) each grant application received under this part; and
(2) any grants awarded under this part, including—

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

(B) the total amount of the grant;

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

(D) any other data the Secretary determines to be necessary for an evaluation of the benefits of a public school green roof.

**SEC. 1134. DEFINITIONS.**

In this part:

(1) **ELEMENTARY SCHOOL.**—The term “elementary school” has the meaning given the term in section 8101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 7801), except that such section shall be applied as if the term “State”, as it appears in such section, had the meaning given such term in this section.

(2) **ELIGIBLE ENTITY.**—The term “eligible entity” means—

(A) a public elementary school or secondary school;

(B) a local educational agency; or
(C) a partnership between a nonprofit organization and an entity described in paragraphs (1) or (2).

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

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

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

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

(5) LOCAL EDUCATIONAL AGENCY.—The term “local educational agency” has the meaning given the term in section 8101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 7801), except that such section shall be applied as if the term “State”, as it appears in such section, had the meaning given such term in this section.

(6) LOW-INCOME INDIVIDUAL.—The term “low-income individual” means, with respect to any cal-
endar year, any individual who lives in a household
that has a gross income that does not exceed 300
percent of the poverty line.

(7) **Nonprofit Organization.**—The term
“nonprofit organization” means an organization de-
scribed in section 501(c)(3) of the Internal Revenue
Code of 1986 which is exempt from taxation under
section 501(a) of such Code.

(8) **One-Stop Career Center.**—The term
“one-stop career center” means a comprehensive
one-stop center described in section 361.305 of title
34, Code of Federal Regulations (as in effect on the
date of the enactment of this Act).

(9) **Poverty Line.**—The term “poverty line”
has the meaning given the term in section 8101 of
the Elementary and Secondary Education Act of

(10) **Secondary School.**—The term “sec-
ondary school” has the meaning given the term in
section 8101 of the Elementary and Secondary Edu-
cation Act of 1965 (20 U.S.C. 7801), except that
such section shall be applied as if the term “State”,
as it appears in such section, had the meaning given
such term in this section.
(11) SECRETARY.—The term “Secretary” means the Secretary of Energy.

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

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

(14) WEATHERIZATION.—The term “weatherization” means the practice of protecting a building and its interior from the elements, particularly from sunlight, precipitation, and wind, and of modifying a building to reduce energy consumption and optimize energy efficiency.

SEC. 1135. AUTHORIZATION OF APPROPRIATIONS.

(a) APPROPRIATION FOR GRANTS FOR PLANNING ASSISTANCE.—There is authorized to be appropriated $100,000,000 to carry out section 1131 for each of fiscal years 2021 through 2025.

(b) APPROPRIATION FOR GREEN ROOF INSTALLATION.—There is authorized to be appropriated $300,000,000 to award grants under section 1132(a) for each of fiscal years 2022 through 2025.
(c) Appropriation for Maintenance of Infrastructure.—There is authorized to be appropriated $100,000,000 to provide funds under section 1132(e) for each of fiscal years 2021 through 2025.