



Republic of the Philippines
House of Representatives
Quezon City, Metro Manila



Twentieth Congress
Second Regular Session

HOUSE BILL NO. **11415**

Introduced by Representative Francisco Paolo P. Ortega V

EXPLANATORY NOTE

This bill seeks to mandate the integration and use of eco-friendly, sustainable, climate resilient, resource efficient technologies in all public infrastructure projects, creating for the purpose the Green Infrastructure and Nature-Based Solutions Inter-Agency Council, and appropriating funds therefor.

The 1987 Constitution explicitly mandates the State to protect and advance the right of the people to a balanced and healthful ecology in accord with the rhythm and harmony of nature. As the country faces escalating risks from climate change, extreme weather events, rapid urbanization, and severe environmental degradation, public infrastructure planning can no longer operate in administrative and engineering silos. Traditional public works have often relied on conventional “grey” infrastructure such as concrete-bound flood control, solid paving, and energy-intensive designs. These approaches can worsen urban heat, speed up stormwater runoff, and create costly long-term maintenance problems.

Conversely, green infrastructure and nature-based solutions use natural systems and sustainable materials to create public projects that are resilient, adaptable, and low-carbon. More than just eco-friendly alternatives, they provide important benefits, such as cleaner water, cooler cities, stronger biodiversity, and new opportunities for green financing, while helping communities become more

climate-resilient.

However, fragmented agency mandates, outdated engineering codes, and institutional inertia have long slowed the wider use of green infrastructure and nature-based solutions in public projects.

This proposed measure addresses that gap by creating the Green Infrastructure and Nature-Based Solutions Inter-Agency Council. Led jointly by the Department of Public Works and Highways, the Department of Environment and Natural Resources, and the Department of Science and Technology, the Council will align climate-resilient engineering, environmental compliance, and local research. By streamlining project reviews, issuing a unified climate-responsive technical manual, and launching a green technology incubation program, this measure ensures that government-funded infrastructure moves toward a low-carbon, net-zero, and climate-resilient future.

In view of the foregoing, the immediate approval of this bill is earnestly sought.



FRANCISCO PAOLO P. ORTEGA V



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HOUSE BILL NO **11415**

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AN ACT

MANDATING THE INTEGRATION AND USE OF ECO-FRIENDLY, SUSTAINABLE, CLIMATE RESILIENT, RESOURCE EFFICIENT TECHNOLOGIES IN ALL PUBLIC INFRASTRUCTURE PROJECTS, CREATING FOR THE PURPOSE THE GREEN INFRASTRUCTURE AND NATURE-BASED SOLUTIONS INTER-AGENCY COUNCIL, AND APPROPRIATING FUNDS THEREFOR

Be it enacted by the Senate and House of Representatives of the Philippines in Congress assembled:

SECTION 1. *Short Title.* – This Act shall be known as the “*Green Infrastructure and Nature-Based Solutions Inter-Agency Act.*”

SEC. 2. *Declaration of Policy.* – It is the policy of the State to protect, preserve, and advance the right of the people to a balanced and healthful ecology in accord with the rhythm and harmony of nature. To this end, the State shall institutionalize a whole-of-government approach to climate change adaptation, mitigation, and environmental sustainability by breaking down administrative silos among key technical agencies; mandate the integration of green

1 infrastructure, low-carbon building codes, and nature-based solutions into all
2 publicly funded works and administrative developments; and harness local
3 scientific research, ecological mapping, and engineering standards to construct
4 resilient, resource-efficient public infrastructure assets.

5 **SEC. 3. *Definition of Terms.*** – As used in this Act:

6 (a) *Green infrastructure* refers to an interconnected network of natural
7 and semi-natural areas, features, and technologies including green roofs,
8 bioswales, rain gardens, permeable pavements, and urban forestry designed to
9 deliver ecological, economic, and social benefits, particularly stormwater
10 management and urban cooling;

11 (b) *Nature-based solutions* refer to actions inspired by, supported by, or
12 copied from nature that address societal challenges sustainably while providing
13 simultaneous environmental, social, and economic benefits;

14 (c) *Public infrastructure projects* refer to all civil works, buildings,
15 facilities, transportation hubs, water management systems, and public spaces
16 constructed, funded, managed, or maintained by national government agencies,
17 government-owned and -controlled corporations (GOCCs), state universities and
18 colleges (SUCs), and local government units (LGUs).

19 **Sec. 4. *Mandatory Use of Green Technologies.*** – All national government
20 agencies, GOCCs, SUCs, and LGUs shall integrate and use eco-friendly,
21 sustainable, climate-resilient, and resource-efficient technologies, hereinafter
22 referred to as green technologies, in the planning, design, construction,

1 rehabilitation, retrofitting, operation, and maintenance of their public
2 infrastructure projects.

3 **SEC. 5. *Green Infrastructure and Nature-Based Solutions Inter-Agency***
4 ***Council.*** – To ensure coordinated policy formulation and implementation, there
5 is hereby created a Green Infrastructure and Nature-Based Solutions Inter-
6 Agency Council, hereinafter referred to as the Council, composed of the
7 following:

8 (a) Secretary of Public Works and Highways and the Secretary of
9 Environment and Natural Resources as chairpersons;

10 (b) Secretary of Science and Technology as vice- chairperson;

11 (c) Secretary of Public Works and Highways;

12 (d) Secretary of Environment and Natural Resources;

13 (e) Secretary of Science and Technology;

14 (f) Commissioner of the Climate Change Commission;

15 (g) Secretary of the Interior and Local Government;

16 (h) Secretary of Budget and Management; and

17 (i) Secretary of Economy, Planning and Development, as members.

18 **SEC. 6. *Powers and Functions.*** – The Council shall have the following
19 powers and functions:

20 (a) Formulate and adopt the national master plan and operational
21 framework for integrating green infrastructure and nature-based solutions across
22 all public sector projects;

(b) Establish and periodically update the Unified Technical Manual and Standards for Green Technologies, harmonizing engineering specifications, environmental protection metrics, and material safety standards;

(c) Oversee the implementation of the Integrated Inter-Agency Review and Clearance System for major public infrastructure developments;

(d) Coordinate research, development, and commercialization initiatives for local green building materials; and

(e) Submit an annual progress report to the President of the Philippines and Congress regarding the status of green infrastructure integration nationwide.

Within one hundred eighty (180) days from the effectivity of this Act, the Council shall formulate and issue the Unified Technical Manual and Standards for Green Technologies.

Sec. 7. *Unified Technical Manual and Standards.* – The Green Infrastructure and Nature-Based Solutions Inter-Agency Council shall periodically update the Unified Technical Manual and Standards for Green Technologies that shall prescribe the minimum technical, environmental, energy efficiency, and climate resilience requirements applicable to public infrastructure projects and shall include:

(a) *Sustainable Drainage and Water Management.* – Mandatory integration of permeable pavements, rainwater harvesting, vegetated drainage channels, and graywater recycling in public facilities;

(b) *Energy Efficiency and Passive Design.* – Integration of solar power

1 systems, natural ventilation channels, high-efficiency thermal insulation, and net-
2 zero energy targets;

3 (c) *Vertical and Horizontal Greening.* – Utilization of vegetated roofs,
4 green walls, and native canopy preservation where structurally and
5 environmentally appropriate; and

6 (d) *Low-Carbon Materials.* – Prioritization of durable, eco-friendly,
7 locally sourced materials such as engineered bamboo, certified sustainable
8 timber, and recycled composite aggregates.

9 All public infrastructure projects shall comply with the green technology
10 standards prescribed in the unified technical manual and standards formulated
11 under this Act.

12 SEC. 8. ***Review and Clearance System.*** – The Council shall establish a
13 streamlined, centralized clearance workflow to replace sequential agency
14 permitting processes. No public infrastructure project shall receive final budget
15 release or construction clearance without a Green Infrastructure Compliance
16 Certificate issued through the Council. The Council shall maintain a digital
17 tracking portal to monitor project evaluations, environmental audits, and
18 structural resilience assessments conducted every two years.

19 SEC. 9. ***Research and Development Program.*** – The Department of
20 Science and Technology shall, in coordination with the Department of Public
21 Works and Highways and the Department of Environment and Natural
22 Resources, administer a dedicated research and development program to test,

1 certify, and scale locally produced green construction materials, alternative
2 aggregates, and climate modeling tools tailored to Philippine tropical conditions.

3 **SEC.10. *Appropriations.*** – The initial funding necessary for the operations
4 of the Council and the implementation of this Act shall be charged against the
5 current year's appropriations of the member-agencies. Thereafter, such sums as
6 may be necessary for its continued operations, technical monitoring, and project
7 auditing shall be included in the annual General Appropriations Act.

8 **SEC. 11. *Implementing Rules and Regulations.*** – Within ninety (90) days
9 from the effectivity of this Act, the Council shall issue the necessary rules and
10 regulations for the effective implementation of this Act.

11 **SEC. 12. *Separability Clause.*** – If any provision of this Act is declared
12 unconstitutional or invalid, the remaining parts or provisions not affected shall
13 remain in full force and effect.

14 **SEC. 13. *Repealing Clause.*** – All laws, decrees, executive orders,
15 ordinances, rules and regulations, and other issuances or parts thereof, which are
16 inconsistent with the provisions of this act are hereby repealed, amended, or
17 modified accordingly.

18 **SEC. 14. *Effectivity.*** – This Act shall take effect fifteen (15) days after its
19 publication in the *Official Gazette* or newspaper or general circulation.

20 Approved,