

EXECUTIVE ORDER 14102

Promoting Sustainable Infrastructure and Green Building Practices

Signed: July 22, 2023

Federal Register Number: 88 FR 44567

Status: Active

Overview

This executive order establishes requirements for sustainable infrastructure development and green building practices in federally funded projects. It mandates that all infrastructure investments consider environmental impact, energy efficiency, and climate resilience.

Policy Statement

Federal infrastructure investments must advance national goals for greenhouse gas emissions reduction, clean energy transition, and climate adaptation. All federally funded infrastructure projects shall incorporate sustainability principles and contribute to building resilient communities.

Key Requirements

Infrastructure projects must address:

1. **Climate Resilience:** Incorporate climate risk assessments and design features that enhance resilience to extreme weather events, flooding, and temperature extremes.
2. **Energy Efficiency:** Meet or exceed federal energy efficiency standards, with preference for net-zero energy buildings and renewable energy integration.
3. **Materials and Resources:** Prioritize use of recycled materials, locally sourced products, and low-carbon construction methods. Minimize waste through circular economy principles.
4. **Water Conservation:** Implement water-efficient fixtures, rainwater harvesting, and stormwater management systems that reduce runoff and support groundwater recharge.
5. **Environmental Justice:** Assess and mitigate potential environmental impacts on disadvantaged communities. Ensure projects provide benefits such as improved air quality,

green space access, and reduced heat island effects.

Grant Application Requirements

Proposals must include:

- Environmental impact assessment following NEPA guidelines
- Climate resilience plan with specific adaptation measures
- Energy modeling demonstrating minimum 30% reduction in energy consumption compared to baseline
- Materials sourcing plan prioritizing sustainable and local options
- Community engagement documentation showing input from affected populations
- Life-cycle cost analysis comparing sustainable vs. conventional approaches
- Monitoring and verification plan for environmental performance metrics