



NGA GLASS CONFERENCE™

CHICAGO — JULY 18-20, 2022

ADVOCACY COMMITTEE UPDATE

Chair: Paul Bush, Vitro Architectural Glass



Paul Bush
Committee Chair
[Vitro Architectural Glass](#)



PHYSIOLOGICAL IMPACTS OF LIGHT ON HUMAN HEALTH & THE IMPLICATIONS OF GLAZING

Glazing Implications:

- For eye health, include peak at 380 nm and everything longer. Block shorter wavelengths below 380 nm.
- Choose double silver with exterior shading.
- Choose low iron over clear.
- Add solarium rooms for light exposure rather than whole building.
- Most important applications are child development: school & daycare, residential.

- Research on treeshrew confirming violet light is critical to retinal development and avoiding myopia.
- Lighting industry convinced architects electric lighting is a solution for circadian rhythm. Within the next 18-24 months we will have data showing we need both daylight and artificial light.



LEGISLATIVE BILL TRACKING

Infrastructure Investment and Jobs Act (IIJA)

Section 40511: Cost-effective Codes Implementation for Efficiency & Resilience

Highlights:

- \$225 million for implementation activities supporting updated energy codes
- Encourages “partnerships” comprised of states and other key stakeholders
- Intended to support code updates—not limited to only the latest codes (currently the 2021 IECC and Standard 90.1-2019)
- Amplifies technical assistance supporting code implementation, and builds on many traditional activities, while scaling these efforts significantly
- DOE is engaging stakeholders and the general public to seek feedback on priorities and activities which should be targeted under the program



We envision a future in which glass is the material of choice to enhance spaces where people live, play, learn, work and heal.

May 20, 2022

U.S. Department of Energy

[BECI-2019106.docx](#)

On behalf of the National Glass Association (NGA), thank you for the opportunity to provide input on Funding for Cost-effective Implementation of Updated Building Energy Codes.

NGA has over 1700 member companies from across North America and the globe. Member companies represent the entire supply chain of the glazing and glass building products industry, from primary glass manufacturers, glass and metal fabricators, insulating glass manufacturers, fabricators/manufacturers of completed glass products and systems, spacers, sealants and other component suppliers, window and door dealers, to the final retail glass businesses and installers/contract glaziers.

First, we would like to comment on the partnerships aspect of Section 40511 of the IIJA.

NGA has the infrastructure to convey information from the Department of Energy (DOE) to the glass and glazing industry and would be interested in partnering with the DOE on disseminating information to the industry. NGA has previously participated in programs with NEEA and EPA and can readily participate in similar programs originating from the DOE.

Next, we would like to comment on each of the five desired outcomes of the RFI:

1. Develop the next-generation workforce

- NGA has partnered with the National Center for Construction Education & Research, the Associated Builders & Contractors, the Associated General Contractors of America, and other training providers to create Registered Apprenticeship Programs (RAPs) for glaziers using the NGA Glazier Apprentice Curriculum. NGA has helped to establish RAPs for glaziers in nine states, and Washington, D.C. With an operational infrastructure already in-place, an additional seven state programs are in development, with the ultimate objective to make glazier apprenticeship programs available in all 50 states. We would be happy to leverage these networks to work in coordination with DOE toward mutual workforce development goals.

LEGISLATIVE BILL TRACKING

Highlights of NGA's response to DOE:

- NGA partnership with DOE to deliver information to the glass & glazing industry
- Leverage NGA glazier apprenticeship programs toward mutual workforce development goals.
- Support broad and consistent adoption of energy codes.
- Include criteria for building envelopes in addition to shorter term fixes such as lighting and mechanical systems.
- Funding to the national labs to show cost-effectiveness of new codes and code enforcement.
- Work with EPA on recycling glass post-building demolition and promoting energy efficiency through retrofit glass initiatives. Calculate carbon savings of recycling.
- Provide incentives for validated domestic supply. Prioritize domestic vs imported energy efficient solutions.



LEGISLATIVE BILL TRACKING

- **Infrastructure Bill- Build Back Better Framework**

Several other existing tax incentives would be extended through 2031, including the:

- Carbon oxide sequestration credit.
- Nonbusiness energy property credit, with an increased percentage for installing energy efficiency improvements.
- Residential energy efficient property credit, which would fully phase out after 2033 and be made refundable starting in 2024.
- Energy efficient commercial buildings deduction, with an increased maximum deduction.
- New energy efficient home credit, which would be increased for homes certified as “[zero energy ready homes](#).”
- Advanced energy project credit for investments in energy manufacturing facilities.

Climate-Focused Programs

Funding for clean energy and environmental initiatives would include:

- \$29 billion to support nonfederal financing to deploy zero-emission technologies, including solar rooftop systems and zero-emission vehicles.



ADVOCACY DAY DISCUSSIONS

- Potential initiatives
- New one-pagers
- Legislator outreach
- Future fly-ins



Congressional members, legislative staff and agency officials who met with the NGA members were from FL, AZ, OR, WA, MI, VA, PA, SC, OH, WI, MN, MD, US EPA and US DOE.

ADVOCACY ONE-PAGERS

- Bird-Friendly Glazing in Building Construction
- High-Performance Glazing Promotes Building Resiliency
- School Security: Windows Respond First
- Registered Apprenticeship Programs

Download NGA One-Pagers
to share with local Reps:



REFINEMENT OF ADVOCACY ONE-PAGERS

Bird Friendly Glazing

- Urge the passage of non-partisan bird friendly glazing legislation pending in the House of Representatives (H.R. 1986) and Senate (S.791).
- Reference NGA's Best Practice for Bird Friendly Glazing Design Guide in all federal design and building standards and in any new sustainable building legislation related to wildlife.
- Request tax incentives for private installation of bird friendly glazing in new construction and retrofit projects.



REFINEMENT OF ADVOCACY ONE-PAGERS

High-Performance Glazing Promotes Building Resiliency

- Provide tax incentives/credits for private installation of high-performance glazing in new construction and retrofit projects in order to promote carbon mitigation, energy savings, and manufacturing and skilled job creation.
- In any sustainability legislation, remove focus from embodied carbon used in manufacturing process to operational carbon savings by utilizing high performance glazing, i.e the amount of reduced operational carbon dwarfing embodied carbon.



REFINEMENT OF ADVOCACY ONE-PAGERS

School Security: Windows Respond First

- Establish a National Certification for “Building Safety & Security Assessors” (BSSA);
- Establish a national requirement that plans for all new schools be reviewed by certified BSSA’s;
- Require all existing schools to undergo a “Building Safety & Security Assessment” by a certified BSSA; and
- Provide needed funding.



REFINEMENT OF ADVOCACY ONE-PAGERS

Recyclability

- Provide tax incentives/credits for recycling architectural glass and utilizing re-cycled architectural glass in any manner.
- Require GSA to recycle architectural glass when renovating and/or demolishing federally owned buildings.
- Provide grants and funding to the glass recycling infrastructure.



EPA AND ARCHITECTURAL GLASS RECYCLING

EPA's Office of Land and Emergency Management (OLEM)

Solid Waste Infrastructure for Recycling (SWIFR) grant program:

- Fund improvements to local post-consumer materials
- Assist local waste management authorities in making improvements to local waste management systems

The U.S. Environmental Protection Agency (EPA) has indicated it will help create a recycling strategy for the built environment this year, and will be creating “an infrastructure map that looks across the different types of infrastructure required to do this work, including materials recycling facilities, which will help us see spaces that don’t have access,”

Nena Shaw, acting director, Resource Conservation and Sustainability Division, EPA



SCHOOL SAFETY LEGISLATION

Bipartisan Safer Communities Act gun safety bill

- President Biden signed the bill into law on June 25, 2022
- How can we drive the use of laminated and BR glass into the school safety conversation?



NEW BUSINESS



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