



NGA

NATIONAL GLASS ASSOCIATION with GANA

2024 ANNUAL REPORT

3M • 3M ARCHITECTURAL MARKETS • 3M CANADA • 4JET • 4JET MICROTCH • 8G SOLUTIONS • A & H GLASS, INC • A GLASCO, INC. • A+W SOFTWARE • A-1 GLASS & ALUMINUM • A-1 GLASS & SHOWER DOOR COMPANY • A-1 GLASS COMPANY., INC. • A1 GLASS OF NORTH CHARLESTON • A-1 GLASS SERVICE, INC. • AA GLASS SHOP • AAG • ABC HARDWARE, INC. • ABSOLUTE GLASS, INC. • ACABADOS EXCLUSIVOS • ACCESS IT, A CYNCLY COMPANY • ACCESS SOLUTIONS, LLC • ACCURATE GLASS, INC. • ACCURATE STOREFRONTS INC. • ACE AUTO & PLATE GLASS CO., INC. • ACE GLASS CENTRAL AR • ACE GLASS NORTHWEST AR • ACE-HI GLASS COMPANY • ACM MACHINERY LTD • ACME GLASS CO., INC. • ACTION DOOR & REPAIR SPECIALISTS • ACTIVE GLASS & MIRROR, INC. • ADELIO LATTUADA SRL • ADENIUM PREMIUM GLASS LLC • ADMINISTRATIVE MANAGEMENT SYSTEMS, INC. • ADRIATIC METAL & GLASS • ADVANCE GLASS • ADVANCED ARCHITECTURAL PRODUCTS, INC • ADVANCED GLASS SYSTEMS, INC. • ADVANCED GLASS SYSTEMS, LLC • ADVANTAGE DRAFTING • ADVANTAGE GLASS CO., INC. • ADVANTAGE WINDSHIELD • AGC INTERPANE ARCHITECTURAL GLASS GMBH • AGC INTERPANE GLASGESELLSCHAFT MBH • AGNORA INC • AGP PLASTICS, INC. • AGS, INC. • AJ GLASS & WINDOW REPAIR • AJAY GLASS CO. • AKINS CO., INC. • AKZONOBEL COATINGS, INC. • ALADDIN GLASS, LLC • ALASKA GLASS & SUPPLY LLC • ALBR SERVICES LLC I HAWAII MIRROR & GLASS • ALDERFER GLASS CO. • ALEXANDER METALS, INC. • ALL ABOUT GLASS • ALL AMERICAN GLASS COMPANY • ALL SERVICE GLASS CO. • ALLIANCE ARCHITECTURAL SOLUTIONS • ALLIANCE EXTERIOR CONSTRUCTION • ALLIANCE GLASS & MIRROR, LTD. • ALLIED GLASS & MIRROR, LLC • ALLIED GLASS INDUSTRIES INC. • ALLIED GLAZING MANAGEMENT, LLC • ALLIED PROJECT CONSULTING LLC • ALLSTAR GLASS COMPANY • ALLYOURHARDWARE.COM • ALP ALUMINUM CO. 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LTD. • ARCHITECTURAL GLASS & METAL COMPANY, INC. • ARCHITECTURAL GLASS & METALS, INC. • ARCHITECTURAL GLASS INDUSTRIES, LLC • ARCHITECTURAL GLASS WORKS • ARCHITECTURAL GLAZING CONTRACTORS • ARCHITECTURAL SALES • ARCHITECTURAL WALL SYSTEMS, INC • ARCON GLASS NORTH AMERICA INC. • ARDMORE CONSTRUCTION SUPPLY • AREA GLASS, INC. • ARGO GLASS AND WINDOWS • ARGON FILLING SYSTEMS, INC. • ARGOTEC • ARIZONA SHOWER DOOR, INC. • ARK GLASS OF CHICAGO, INC. • ARROW GLASS • ARROW GLASS & MIRROR • ARROW GLASS INDUSTRIES • ARTVUE GLASS • ASCENTIUM CAPITAL • ASHTON INDUSTRIAL SALES LTD • ASSA ABLOY - GLASS SOLUTIONS • ASSOCIATED GLASS, INC. • ASSURED GLASS SERVICES, LLC • ATACCON, LLC • ATECH MACHINE INC. • ATECH MAKINE SAN. VE TIC. LTD. 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VE. TIC. LTD. 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LLC • DOOR CLOSER SERVICE CO., INC. • DORGLASS, INC. • DORMAKABA • DOTHAN GLASS CO., INC. • DOUBLETREE GLASS AND WINDOWS • DOW • DOYLESTOWN GLASS CO. • DRAFTING MARKETPLACE • DT GLASS, INC. • DURA-LITE ALUMINUM PRODUCTS, INC. • DURANGO SOLARIUMS • E & L CIVIL ENGINEERING • EARLS BUILDING SUPPLY • EAST COUNTY GLASS & WINDOW, INC. • EAST COUNTY GLASS & WINDOW, INC. - BRENTWOOD • EAST END GLASS CO., INC. • EAST SIDE GLASS CO. • EAST SIDE GLASS LLC • EASTERN GLASS AND ALUMINUM, INC. • EASTERN GLASS RESOURCES • EASTMAN I SAFLEX • EASTMAN CHEMICAL COMPANY • EASTMAN MACHINE COMPANY • ED STEINMAN, INC. • EDGEWORKS • EDTM, INC. • EFCO, LLC • EGAN COMPANY • EL PASO GLASS CO., INC. • EL PASO GLASS DENVER • ELEMENT30, INC. • ELEVEN GROUP LLC, DBA MONDAK DOOR • ELITE GMI CO • ELUMATEC NORTH AMERICA, INC. • EMMEGI USA, INC. • EMPIRE GLAZING OF FLORIDA, INC • ENCLOS CORP. • ENCLOSURES UNLIMITED, INC. • ENDUROSHIELD • ENERGY EXTERIORS NW, LLC • ENGINEERED CUSTOM COATINGS • ENSINGER, INC. • ENVISION GLASS • EPIC SOLAR CONTROL, LLC • EQUITY GLASS CO. • ERDMAN AUTOMATION CORP. • ERIE ARCHITECTURAL PRODUCTS • ES WINDOWS • EUCLID GLASS • EVANS GLASS CO. • EVERLAM N.V. • EWING GLASS & MIRROR • EXCEL ENGINEERING, INC • EXIGN GLAZING AND ALUMINUM • EXPRESS IMPACT MANUFACTURING • EXTERUS CONSULTING • F. BARKOW, INC. • FAB GLASS AND MIRROR LLC • FABRICATED PRODUCTS GROUP • FACTORY GLASS DIRECT LLC • FAIRMONT GLASS & SIGN PRODUCTS • FAIRWAY GLASS • FALCON RAILINGS ATLANTA • FALLON GLASS & SIGN, INC. • FAOUR GLASS TECHNOLOGIES • FARGO GLASS & PAINT COMPANY • FAST GLASS INC • FAUS GLASS • FEDERATED INSURANCE • FENESTRATION TECHNICIANS LLC • FENETECH, A CYNCLY COMPANY • FENSOURCE • FENTON GLASS SERVICE • FENZI NORTH AMERICA • FG GLASS INDUSTRIES PVT LTD • FGE SOLUTIONS • FHC THE GLAZING SUPPLY COMPANY • FINISHING TRADE INSTITUTE OF ONTARIO • FINISHING TRADES INSTITUTE OF NEW ENGLAND • FINISHING TRADES INSTITUTE UPPER MIDWEST • FIRST CHOICE BUILDING PRODUCTS • FIRST GLASS OF ARKANSAS • FISHER CONTRACT GLAZING • FLEETR HOLDINGS LLC • FLEX GLAZING LLC • FLEXIJET NORTH AMERICA • FLICKINGER GLASSWORKS • FLOWER CITY GLASS CO., INC. • FLOYD'S GLASS CO., A DIVISION OF FLOYDCO, INC. • FLYNN BEC LP • FLYNN CANADA LTD. • FMC/RHYNO, LLC DBA RHYNO GLASS • FOM USA • FOREL NORTH AMERICA • FOREL S.P.A. • FORMAN GLASS • FORMTEK GROUP • FRANKLIN COUNTY GLASS, INC. • FREEDOM GLASS AND MIRROR • FRONTKE GMBH • FRONTLINE GLASS, INC. • FTI CONSULTING • FULL SERVICE GLASS, INC. • FULLERTON GLASS CO. • FURNITURE CITY GLASS • FUTUREGUARD BUILDING PRODUCTS • GAGE ALUMINUM & GLASS, LTD • GALAXY GLASS CORP., INC. • GANG GWO INDUSTRIAL CO., LTD. • GARDNER GLASS PRODUCTS, INC. • GARIBALDI GLASS INDUSTRIES, INC. • GARRETY GLASS INC. • GASPARILLA GLASS • GATSBY GLASS • GDS ESTIMATING • GENERAL GLASS CO. • GEORGIA STOREFRONTS INC • GGI • GIBRALTAR GLASS INC. • GIROUX GLASS, INC. • GLASPRO, INC. • GLASS & METAL CRAFT • GLASS 3 ENTERPRISES LTD • GLASS ACCESSORIES INT'L, INC. • GLASS ARCHITECTS. LLC • GLASS BUILDERS INC • GLASS CASTLE • GLASS CENTER • GLASS COATINGS AND CONCEPTS LLC • GLASS CONCEPTS INC. • GLASS CONTRACTORS, INC. • GLASS CORPORATION • GLASS DEPOT, LLC • GLASS DESIGN OF MIAMI • GLASS DISTRIBUTORS INC. • GLASS DOCTOR CORPORATE • GLASS EDGE OF LINCOLN, INC • GLASS ENTERPRISES, INC. • GLASS GUYS LLC • GLASS KING INC. • GLASS LAMINATION OF AMERICA, LLC • GLASS MAJOR LLC • GLASS MANAGER • GLASS MASTERS • GLASS METAL COMPANY, INC. • GLASS PRO'S • GLASS SERVICE CENTER OF AUGUSTA, INC. • GLASS SERVICE CENTER OF MACON • GLASS SERVICE OF CUMBERLAND, INC. • GLASS SOLUTIONS LLC • GLASS SYSTEMS INC. • GLASS TEMPERING SOLUTIONS BY GEORGE LLC • GLASS UNLIMITED INC. • GLASS WAREHOUSE • GLASS WITH CLASS LLC • GLASSBEL BALTIC • GLASSCO • GLASSFAB TEMPERING SERVICES, INC • GLASSHOUSE PRODUCTS LLC • GLASSLINE CORP. • GLASSTECH SPECIALIST, INC. • GLASSTRA GROUP, LLC • GLASSWERKS LA INC. • GLASSWORKS, INC. • GLASTON FINLAND OY • GLASTON MÉXICO, S.A. DE C.V • GLASTON NORTH AMERICA, INC. • GLAZCON INDUSTRIES, INC. • GLAZELock INC. • GLAZIER NATION • GLAZIER SOFTWARE • GLAZIERS CONSULTING • GLAZING CONCEPTS, INC. • GLAZING VISION INC • GLAZZ CUSTOM WORKS INC. • GLENDALE GLASS, INC. • GLENNY GLASS CO. • GLENSIDE GLASS CO. • GLOBAL GLASS INNOVATIONS • GLOBAL SECURITY GLAZING • GO-GLASS JOY, LLC. • GOLDRAY GLASS • GONZATO GROUP • GOOD CREDIT CORP. • GORDON H. SMITH CORPORATION • GORDON'S GLASS, LTD. • GPR, INC. • GRAF INDUSTRIES INC • GREAT LAKES LIFTING SOLUTIONS • GREEN BUILDING PRODUCTS • GREENFIELD GLASS COMPANY, INC • GREENLITE SERVICES LLC • GREER GLASS COMPANY • GRELLER & CO., INC. • GRENZEBACH CORPORATION • GRENZEBACH MASCHINENBAU GMBH • GRIFFIN GLASS & METAL WERKS, INC. • GRIGGS & SON GLASS AND MIRROR • GRIZZLY GLASS LLC. • GROVE SHIMS • GROVES, INC. • GS-MR GLASS AND STONE (MACHINERY AND ROBOTICS) UK & IRELAND LTD • GUARDIAN GLASS ENGINEERED GLASS PRODUCTS • GUARDIAN GLASS LLC • GULF BEACH SHOWER DOORS AND GLASS LLC • GUTHRIE AUTOMATION • GUTMANN NORTH AMERICA • H.B. FULLER COMPANY • HAECO INC • HAFFNER MACHINERY • HAFFNER NORTH AMERICA • HALE GLASS, INC. • HALL ALUMINUM PRODUCTS, INC • HALS INTERNATIONAL • HAMILTON GLASS COMPANY • HANS BUILDING MATERIAL TECHNOLOGY CO. LTD. • HANSGAT POLYMER ENGINEERING • HARDEN ARCHITECTURAL SECURITY PRODUCTS • HARDMAN GLAZING MANAGEMENT, LLC • HARDWARE AND GLASS GROUP LIMITED • HARELD GLASS CO., INC. • HARMON, INC. • HARTFORD GLASS • HARTMAN GLASS • HARTUNG GLASS INDUSTRIES • HEARTLAND GLASS CO., INC. • HEATHER WEST PUBLIC RELATIONS, INC. • HEGLA CORPORATION • HEGLA GMBH & CO. KG • HEK GLASS, INC. • HELIMA HELVETION INTERNATIONAL • HEMM GLASS SHOPS, INC. • HENDRIX GLASS SERVICE, INC. • HENRY COUNTY GLASS & MIRROR, INC. • HERITAGE GLASS • HERMAN ARCHITECTURAL PRODUCTS • HERZOG INDUSTRIES, LLC DBA HERZOG GLASS • HHH EQUIPMENT RESOURCES • HIGGINBOTHAM GLASS CORPORATION • HIGGINS GROUP • HIGH CLASS GLASS • HIGH PERFORMANCE GLAZING INC. • HIGH RISE GLASS & DOOR • HMI • HOB0 BIRD HOLDINGS, INC • HOLAMP CO INTERNATIONAL • HOMEWELL GLASS PRODUCTS INC. • HONEYWELL INT'L • HOPPER'S GLASS • HOSKIN & MUIR, INC • HOUSE OF GLASS, INC. • HOUSTON ABSOLUTE GLASSWORKS • HOU-TEX GLASS & MIRROR, INC. • HPD CONTRATISTAS GENERALES SAC • HUB INDUSTRIAL SUPPLY • HUNTINGTON GLAZING, INC. • HUTCHISON GLASS & MIRROR, INC. • HYDRO EXTRUSION USA, LLC • ICD HIGH PERFORMANCE COATINGS • IDAHO SASH & DOOR • IGE GLASS TECHNOLOGIES, INC. • IGG NORTH AMERICA INC. • IGT GLASS HARDWARE • ILLINOIS DESIGN SOLUTIONS INC. • ILLUSTRATED INTERIORS • IMAGIC GLASS INC. • IMMCO LLC • IMPACT (IRONWORKER MANAGEMENT PROGRESSIVE ACTION C • IMPERIAL PLASTICS, INC. • INDIANHEAD GLASS, INC. • INDUSTRIAL GLASS PRODUCTS • INFINITE RECYCLED TECHNOLOGIES • INFINITY GLASS & GLAZING, INC. • INFINITY-AP • INNOVATIVE POLISHING SYSTEMS INC. • INOVUES • INSULITE GLASS CO. • INSUL-LITE MANUFACTURING • INTEGRATED AUTOMATION SYSTEMS, LLC • INTERCLAD • INTERGLASS CORP. • INTERLAYER SOLUTIONS INC. • INTERMAC AMERICA • INTERNATIONAL REVOLVING DOOR, INC • INTERNATIONAL WINDOW FILM ASSOCIATION • INTERPANE GLASGESELLSCHAFT MBH • INTERTEK • ISD GROUP USA INC. • ITZKO GLASS & METAL, INC (IGM) • J & A GLASS AND MIRROR, INC • J & C GLASS WORKS • J & J GLASS • J&M GLASS, LLC • J.C. MOAG CORPORATION • J.W. GOSS CO., INC. • JA WEIR ASSOCIATES • JACKSON'S GLASS SHOP • JAILEN INC. • JANSEN AMERICA INC • JANSSEN GLASS & DOOR, LLC • JAY-BEE LOGISTICS COMPANY • JAZ SALES & CONSULTING LLC • JB DESIGN FAÇADE ENGINEERS • JD GLASS INC • JDM MANAGEMENT • JEI STRUCTURAL ENGINEERING • JEKKO USA LLC. • JEM GLASS, LLC • JESKE HARDWARE DISTRIBUTORS • JLM WHOLESALE S.E. • JLM WHOLESALE, INC. • JMI WINDOW & DOOR INC. • JOB SITE 8 LLC • JOE'S REFRIGERATION, INC. • JONATHAN METAL & GLASS,

WORKFORCE DEVELOPMENT

BUILDING THE NEXT GENERATION

NGA rolls out new tools to recruit, train and retain employees

Recruiting

Raising awareness of the glass and glazing industry remains key to eventually easing the labor shortage. “While most people know what an electrician or plumber does, the same cannot be said of glaziers,” says Jenni Chase, vice president of workforce development for NGA. “Similarly, they aren’t aware of the opportunities that the manufacturing and glass fabrication sectors offer.”

To help companies educate the public, particularly young people, about careers in the glass industry, NGA released a recruitment kit that includes “A Guide to Recruiting at High School Career Fairs.” The downloadable resource offers step-by-step instructions for engaging students at career fairs and talking to them about the trade.

As part of its outreach efforts, NGA also held Workforce Development Day at GlassBuild America in Dallas, where 50 students from the local Plano ISD Academy High School visited booths and equipment exhibits to learn about the industry, join in mentoring Q&A sessions at the Main Stage, and visit the

Architectural Glass & Metal Technician Certification testing area.

Training

NGA invested heavily in the MyGlassClass.com online learning platform in 2024. The new MyGlassClass.com provides more than 100 online courses for contract glaziers, full-service glass companies and glass fabricators to complement and shorten companies’ hands-on training.

The newest addition to the NGA training suite, MyGlassFAB offers core training for production personnel that they can access on their smartphone to learn about job responsibilities, safety, products and fabrication techniques.

NGA also introduced a package of frameless shower enclosure courses to complement the new Frameless Shower Enclosure Design & Installation Manual. For glaziers, NGA continues to partner with registered apprenticeship providers to offer glazier apprenticeship programs approved by the U.S. Department of Labor. Installers who complete the NGA Glazier Apprentice Curriculum earn a jointly endorsed NGA/National

Center for Construction Education and Research (NCCER) credential indicating a journeyman-level minimum competency reached through knowledge and performance.

“Apprenticeship provides a distinct career path for new installers entering the industry that demonstrates a commitment to best practices and skill development,” Chase says.

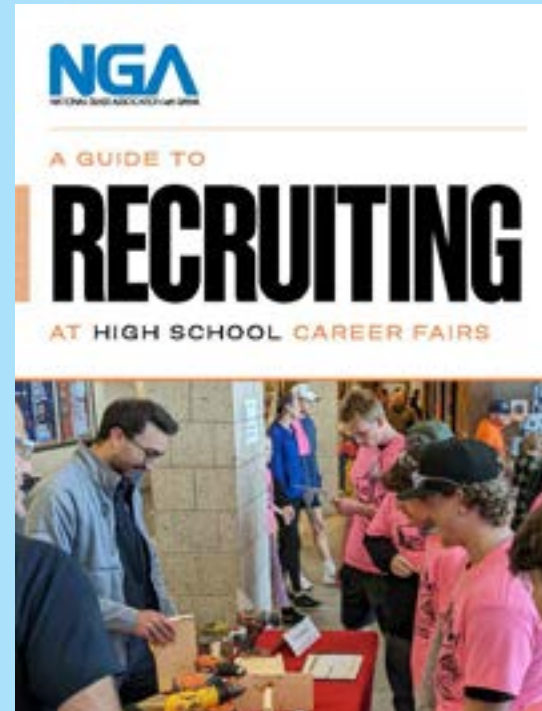
Retaining

Training also plays a major role in employee retention, so NGA teamed up with the Architectural Glass and Metal Technician Certification Council to host AGMT certification testing live on the GlassBuild America show floor in Dallas. This marked the first time AGMT testing occurred in a public forum, offering the glazing community a chance to witness the testing process.

“Training, apprenticeship, certification: these all provide companies the opportunity to invest in employee development, which has been proven to positively impact retention,” Chase says. ■

NGA FOUNDATION COVERS APPRENTICESHIP COSTS

The NGA Foundation, through donations from donors like Frameless Hardware Company and the Friese Foundation, covers the cost of the NGA Glazier Apprentice Curriculum for new glazier apprentices. Additionally, the Foundation has funded new MyGlassClass.com courses and supported outreach initiatives, including NGA’s recruitment kit and Guide to Recruiting at High School Career Fairs, to promote industry awareness among young people. The NGA Foundation is a 501(c)(3) nonprofit organization where tax-deductible donations can be made for training the industry, advocating on behalf of the industry, and promoting the industry by educating consumers about the many ways glazing and glass architectural products contribute to a safe, healthy, sustainable and inspiring built environment.



Fifty students from Plano ISD Academy High School attended Workforce Development Day at GlassBuild America 2024 to learn about the glass and glazing industry.



THE NGA RECRUITMENT KIT CAN BE FOUND ON GLASS.ORG.

FREE TO NGA MEMBERS

At its August 2024 meeting, the NGA Board of Directors voted to offer MyGlassClass.com courses free to NGA members. Free courses will include those in the Glazier Training and MyGlassFAB course catalogs.

ADVOCACY AND RESOURCES

ADVOCATING FOR ADVANCEMENT

NGA collaborates with the industry to provide resources advancing sustainability, technical performance and legislative know-how



NGA MEMBER COMPANY BEES INC. PROVIDED THE CURTAIN WALL AND PERFORATED SUNSHADES FOR ONE NORTH HILLS TOWER, RALEIGH, NORTH CAROLINA.

NGA is selected for funding to provide support for material transparency compliance

The National Glass Association applied for, and was selected for, a \$2.1 million grant* by the U.S. Environmental Protection Agency to help support a shift to cleaner construction materials. "Having our grant application selected by EPA presents a great opportunity for NGA member companies, giving needed resources for our members to provide high quality information to their customers to support sustainable building," said Nicole Harris, NGA president & CEO. "This will help NGA advance its goal to elevate the image of glass as a safe, healthy, sustainable and inspiring building product."

The grant money will fund NGA efforts over five years to do the following:

1. **Aggregate primary flat glass life-cycle inventory data.** NGA will provide support to improve

the granularity of primary flat glass LCI data, as well as a project category rule update.

2. **Create an environmental product declaration generator tool for fabricated glass.** The goal is to develop a robust generator tool capable of producing both LCA data reports and full third-party reviewed EPDs for processed glass products in conformance with ISO standards.
3. **Provide EPD development assistance for glass fabricators.** Provide technical, educational and financial assistance to glass fabricator members for EPD development. This would include technical assistance and reimbursement for EPD development.
4. **Facilitate end-of-life LCA data collection on architectural glass recycling.** To improve the under-

standing about glass end-of-life and quality of LCA part D data, the association will quantify glass recovery rates and track end-use outcomes for recycled glass on one to three deconstruction projects.

NGA relaunches World of Glass Map

As part of its education and sustainability initiatives, NGA relaunches its World of Glass Map resource on glass.org. The newly updated map features information about global flat glass manufacturing locations and North American glass fabrication capabilities. And new this year, the map features recycling locations for flat glass.

This new recycling map, created in collaboration with the industry, is meant to provide North American glass industry members information about their near-

est recycling facility and what types of materials are accepted at each location.

"Glass recycling is becoming a much more important tool for all glass companies to use as we drive toward a more sustainable and circular economy," says Kyle Sword, business development manager, Pilkington North America, NGA Board of Directors member and NGA Recycling task group chair. "The NGA is beefing up the tools like the technical papers and the glass map as member resources. The educational information and content are other benefits that help those members that want to further their recycling efforts and is a great example of how the NGA is enabling change in the industry."

Newly created databases help members stay ahead of important legislation

Beyond actively advocating for the glass and fenestration industries on Capitol Hill and around the world, NGA is also tracking legislation that is shaping the present and future of construction. This year, the Association created, and will continuously update, two databases for North American legislation that affects the industry.

State "Buy Clean" Legislation Database

Several U.S. States have established Buy Clean programs with maximum acceptable Global Warming Potential (GWP) limits for selected construction materials, which can include glass. Building projects subject to Buy Clean legisla-



Find all NGA technical resources at glass.org/store.



Sustainability and recycling resources



Access the databases (member login required)



PROJECT TEAM FROM NGA MEMBER COMPANY W&W GLASS.

tion may require bidders to submit an Environmental Product Declaration (EPD) for specified products. This database tracks the legislation, materials covered, description of applicable projects, and GWP limits imposed by state.

U.S. and Canadian Bird-friendly Building Policies Database

This database tracks mandatory and voluntary bird-friendly policies, including what portion of the building must be bird-friendly, and how bird-friendly glazing is defined within each policy. NGA advocates that jurisdictions reference the NGA Bird Friendly Glazing Design Guide for consistent implementation of bird-friendly requirements.

NGA updates over 20 resources, including Glass Technical Papers

As part of its commitment to providing technical expertise to the industry, NGA staff and volunteers again updated several of the association’s resources, including several Glass Technical Papers.

NGA volunteers update GTPs through the systematic review ballot process on a five-year cycle, and the association offers over 90 technical papers free to download for everyone at glass.org/store.

“NGA wants to thank its many volunteers for the time and effort they provided to updating these valuable resources. It’s only with technical resources created for the industry, by the industry, that we can ensure glass remains an innovative building material of choice,” says Karen Wegert, director of technical services, NGA.

GTP Spotlight: Updated in 2024

• **Security.** NGA volunteers updated GTP FB71-24 School Security Glazing. First published in 2021, this resource provides information about how glass can aid in protecting students and teachers, as well as information about

security glazing options for windows and doors installed in schools.

- **Flat glass mirror fabrication.** The GTP FB22-24 Proper Procedures for Fabrication of Flat Glass Mirrors was updated in April. While silvered flat glass mirror products can be fabricated to provide additional aesthetic appeal, this resource provides insights on how to ensure proper conditions and techniques are utilized during every step of fabrication, as additional fabrication features are applied.
- **Capillary tubes.** NGA collaborated with the Fenestration and Glazing Industry Alliance to jointly publish the updated NGA/FGIA TB-1601, Guidelines for Use of Capillary Tubes. This eight-page guide addresses the use of capillary tubes in insulating glass units, including proper manufacture and design, glazing methodologies, and advantages and disadvantages of their use.

NGA collaborates with FGIA and WDMA on new PCR for Fenestration Assemblies

As government bodies require more material transparency from the building industries, NGA is working to provide resources for companies to meet these advancing standards. As part of this initiative, the association collaborated across the industry with the Fenestration and Glazing Industry Alliance and the Window and Door Manufacturers Association to create a new Product Category Rule for Fenestration Systems.

This PCR provides manufacturers with the base document needed to develop Environmental Product Declarations. “This Fenestration PCR is more encompassing for the glass and glazing industry and will allow companies to generate their EPDs with the most up-to-date rules for sustainability,” said NGA Vice President of Technical Services and Advocacy, Urmilla Sowell.

All new or updated resources in 2024

Find all these resources and more at glass.org/store.

- FB56-18 [2024] Heat Soak Testing of Tempered Glass for Architectural Glass Applications
- FB25-09 [2024] Performance Criteria for Glazing Subjected to Seismic Events
- FB53-17 [2024] Benefits of Decorative Glass in Daylighting Applications
- FB30-11 [2024] Proper Procedures for Receiving, Storage and Transportation of Flat Glass Mirrors
- FB06-24 Proper Procedures for Cleaning Flat Glass Mirror
- FB24-24 Hurricane Product Substitution
- FB32-24 Dynamic Glazing for High Performance Buildings
- FB44-24 Assessing the Durability of Decorative Glass
- FB61-24 Tornado Resistant Glazing
- FB37-24 Glass Use in Furniture
- FB36-24 Coastal Glazing and the Turtle Codes
- FB71-24 School Security Glazing
- FB42-24 Assessment of Decorative Glass Strength Properties
- FB57-24 One Optical Number Does Not Fit All
- FB62-24 Thermal Stress in Heat-Treated Spandrel Glass
- NGA/FGIA TB-1601, Guidelines for Use of Capillary Tubes
- FB22-24 Proper Procedures for Fabrication of Flat Glass Mirrors:
- PCR for Fenestration Systems
- Cleaning Architectural Glass postcards (in English and Spanish)
- NGA Shower Door Information flyer

GLASS AND GLAZING ADVOCACY DAYS

NGA GOES TO D.C.

Members focus on four policy priorities during third annual event



NGA MEMBERS MEET WITH LAWMAKERS TO ADVOCATE FOR THE GLASS INDUSTRY.

41

MEETINGS WITH CONGRESSIONAL REPRESENTATIVES

20

STATES REPRESENTED BY INDUSTRY MEMBERS

NGA hosted members, stakeholders from government agencies and congressional members in Washington, D.C., May 14-15, to discuss top policy priorities and to showcase how the industry contributes to the economy, the workforce and human health.

Policy Priorities

NGA focused on four policy priorities during its time on Capitol Hill.

1. Workforce Development

Advocacy Day participants met with Senator Bernie Sanders' office. Sanders chairs the Senate Committee on Health, Education, Labor and Pensions. Jenni Chase, vice president of workforce development at NGA, made the case with Sanders' office staff to encourage the passing of a Senate bill similar to H.R. 6655: A Stronger Workforce for America

Act, which increases funding to train and upskill workers (the bill passed in the House of Representatives).

"We need to give potential employees access to tools to get trained," says participant Rick Locke, NGA chair and owner/president of Montana Sash & Door.

2. School Security

Securing schools from forced entry remains a major issue in the U.S. Advocacy Days participants shared how glazing products can help harden school buildings and delay an attacker's entry.

Advocacy Days participants spoke with the office of Senator Marsha Blackburn, who introduced Senate Bill 1107: Securing Aid for Every School Act, which allocates funds for school safety and security.

3. High-performance glazing

Participants also made the case to

extend the Section 48 tax credit of the Internal Revenue Code that incentivizes the use of electrochromic glass, and expand the definition of the section to include other high-performance glazing options.

Speaking to Senator Mitt Romney's office, Helen Sanders, general manager of Technoform Glass, explained that heat pumps—which receive more incentives than fenestration—require high-performance glazing to effectively reduce heating and cooling loads of buildings, underlining the need to incentivize the use of high-performance glazing to achieve energy-efficient buildings.

4. Bird-friendly glazing

Bird-friendly glazing can help prevent the nearly 600 million bird deaths each year due to glass collisions. Advocacy Days participants spoke with the office of Representative Morgan Griffith, who

introduced the Federal Bird Safe Buildings Act in 2023; the legislation would require bird-safe glass be installed in new General Services Administration buildings.

Tangible results

Three NGA members attended a meeting with the legislative aide for Senator Ed Markey. Markey co-sponsored an updated bill to extend the tax credit deadline less than one month after this meeting. The legislative aide sent a follow up message regarding the influence of NGA's visit and one-pager: "It was wonderful to meet with NGA members and listen to their priorities, including extending the tax credit. This feedback, along with other stakeholders, was helpful in putting together Dynamic Glass 2.0."

A fall return to D.C.

NGA staff and consultants returned to Capitol Hill in September and met with federal legislators to discuss expanding the investment tax credit for high-performance windows. Currently, Section 48 of the Internal Revenue Code includes an investment tax credit only available for electrochromic glass. NGA requested to expand the types of high-performance windows eligible for the investment tax credit to include other types of dynamic glass, as well as triple glazing and vacuum insulating glazing. NGA also requested an extension on the credit's deadline, which was set to expire on Jan. 1, 2025.

"Our day in Washington was even more productive than expected," says NGA Vice President of Advocacy and Technical Services, Urmilla Sowell. "We had meetings with the offices of many Congressional members and leaders of

the Finance and Ways and Means Committees. Each office was very receptive to our message and asked meaningful questions. We received encouragement and constructive feedback from those we met with."

What attendees had to say

"It was an eye-opening experience on Capitol Hill. There is still a lot to be done, but it's good to know that the glass industry is doing its part in affecting legislation that could lead to meaningful change. We are a passionate bunch with deep knowledge that our legislators need." - Diana San Diego, Safti First

"What a truly amazing group of people that I am humbled to participate with. This group made an impact today, for sure."-Joe Kaiser, Herzog Glass

EDUCATION

ADDRESSING TOP CHALLENGES

NGA conferences, webinars and more address labor, product innovations, industry headwinds, architect outreach and more



WINDOW REPLACEMENT SERVICES FROM NGA MEMBER COMPANY ARGO GLASS & WINDOWS. THE COMPANY OFFERS A VARIETY OF RESIDENTIAL AND COMMERCIAL REPAIR AND REPLACEMENT SERVICES.

New: The GlassBuild Podcast Studio

For the first time ever, GlassBuild America hosted the GlassBuild Podcast Studio, centrally located on the tradeshow floor, adjacent to the GlassBuild Main Stage. The Podcast Studio was home to on-site, live video and audio recordings of episodes for the Glass Cast and Window Cast podcasts. All episodes are distributed in audio forms on all top podcast platforms and in video on YouTube.

The podcasts

Glass Cast and Window Cast are created by Glass Magazine and Window + Door magazine, the official publications of GlassBuild organizer the National Glass Association. Hosts include Katy Devlin, NGA's VP of Content and Programming and Editor in Chief of Glass Magazine; Sara Neiswanger, NGA Associate Director of Industry Events; and Laurie Cowin, Editor, Window + Door.

The topics

During GlassBuild, Glass Cast and Window Cast recorded interviews with leaders from top companies, industry influencers and other show VIPs discussing the top show news, industry trends, business opportunities and headwinds, and more.

[See all the podcasts](#)

The glass and glazing community is faced with daunting challenges in today's market. Companies struggle to find, train and keep employees. The industry battles misinformation about the role of glass in high-performing buildings. Busy owners strive to grow profits amid economic and market uncertainty.

In 2024, NGA developed content and resources to help glass companies tackle their top challenges, allowing them to build more profitable businesses.

Labor topics headline NGA events in 2024

Companies' biggest ongoing concern is labor—specifically finding, training, keeping and protecting employees. NGA's key events in 2024—the GlassBuild Main Stage, the BEC Conference, Glass Processing Automation Days, the Glazing Executives Forum and NGA Glass Conferences—offered educational programming focused

on labor. The topic also led several of NGA's popular Thirsty Thursday webinars.

HIGHLIGHTS:

Recruiting and training the next generation

Workforce Development is one of NGA's four strategic goals, and education programming in 2024 focused on content to help glass companies find, recruit and train the next generation of industry workers.

During GlassBuild America, attendees of the Glazing Executives Forum were privy to a workshop session on recruiting in high schools, while the Main Stage featured a session on setting up internal training programs, and keynote from Emily Pilloton-Lam, executive director of the nonprofit Girls Garage, speaking to a packed house of high school students about careers in construction.

During the Women in Glass + Fenes-

tration event at the Main Stage, Nicole Calhoun, a leadership consultant, offered insights and strategies for developing mentorship programs. "Develop and promote inclusive mentorship programs," she says, and provide development opportunities for employees. "Companies can offer resources such as training and leadership development programs for women, as well as career coaching," she says.

Mental health and addiction-recovery support

Workers in construction have higher rates of opioid addiction and of suicide than most industries. Part of creating a safe work environment in glass asks company leaders to find ways of supporting employees struggling with mental health concerns or addiction.

In 2024, NGA teamed up with Cal Beyer, CWP, SAFE Project, to bring these life-saving topics to the glass industry. Beyer

and Dave Argus of Karas & Karas Glass delivered an address on opioid addiction during the BEC Conference in March, and returned to the GlassBuild Main Stage in October to educate company owners on building an addiction recovery-safe workplace. Additionally, during an NGA Thirsty Thursday webinar, Beyer was joined by Kevin Hines, filmmaker, author and mental health activist, to discuss suicide prevention at glass companies.

"It's time for us to stop being afraid of this topic. To recognize that people are hurting," says Beyer.

Bringing glass education to the architectural community

As part of its core mission, NGA "envisions a future where glass is the preferred material for enhancing spaces where people live, work, learn, play and heal." In pursuit of this mission, NGA

targets numerous educational offerings to architects.

NGA accelerated its architect education in 2024, emphasizing:

- The high-performance potential of glass and glazing
- The role of glass in occupant health and wellness
- The importance of early project collaboration with glass and glazing team members
- The wide-ranging functionalities of glass, from security to aesthetics
- New technologies in glazing façade design and construction.

ARCHITECT EDUCATION HIGHLIGHTS FROM THE YEAR:

Glass and Glazing Design Academy

The NGA continued its partnership with Architectural Record to provide AIA-accredited continuing education through

the Glass and Glazing Design Academy. The academy highlights the latest advancements in glass and glazing technology, ranging from energy-efficient coatings to protective glazing systems. Moreover, it provides insights into strategies for creating inspiring learning environments, and shines a light on the crucial role protective glass and glazing play in safeguarding vulnerable establishments like schools, hospitals, banks, and movie theaters.

The academy includes articles, webinars and presentations, and is approved for 8 AIA learning units.

Blueprint for Collaboration at GlassBuild

NGA's popular Blueprint for Collaboration program drew architects, engineers and other glass industry leaders for a day of glass industry-focused content accredited for 5 AIA learning units at GlassBuild America. NGA's popular Blueprint for Collaboration program, which debuted at the AIA Conference on Architecture in 2022, came to the GlassBuild America Main Stage in 2024. The event drew architects, engineers and other glass industry leaders for a day of glass industry-focused content accredited for 5.0 AIA learning units.

Topics included an Industry Trends Roundtable focused on high-performance solutions, a panel discussion of decorative glass case studies, a codes and standards update from NGA's advocacy and technical leaders, and a closer look at residential fenestration trends. Blueprint for Collaboration at GlassBuild was co-sponsored by Infinite Recycled Technologies LLC.

More new or updated AIA presentations

NGA's advocacy and technical team also leads a host of NGA member volunteers in the development and maintenance of a variety of curated presentations. These

address a range of topics including introductions to fabrication techniques, as well as design trends such as bird-friendly, dynamic glazing, daylighting and more.

In 2024, NGA released an updated version of its popular presentations, The Value-Added Performance of Coated Glass. In addition, members now have access to three new presentations on: Key Strategies of Bird-Friendly Glazing, Thermal Bridging Considerations at Interface Conditions and Security Glazing for Schools.

NGA members may view the full suite of presentations within the online [Member Dashboard](#) and complete a speaker agreement form to become an approved presenter.

Spotlight on industry trends

Glass industry leaders look to NGA to provide insights and updates on industry trends and forecasts that could affect their companies. Content across all NGA platforms targets innovations, forecasts, market headwinds and more.

HIGHLIGHTS:

Market headwinds and opportunities

2024 increased NGA's efforts to provide content delving into market trends that could impact glass and fenestration companies. Popular construction economic forecaster Connor Lokar of ITR Economics returned to GlassBuild 2024 for a keynote during the Glazing Executives Forum and a presentation on the GlassBuild Main Stage. Additionally, Window + Door magazine continued its partnership with John Burns Research and Consulting to produce the quarterly Window and Door Manufacturers report, with survey consultant Chris Beard delivering an industry forecast presentation during GlassBuild and a quarterly update during a Thirsty Thursday.

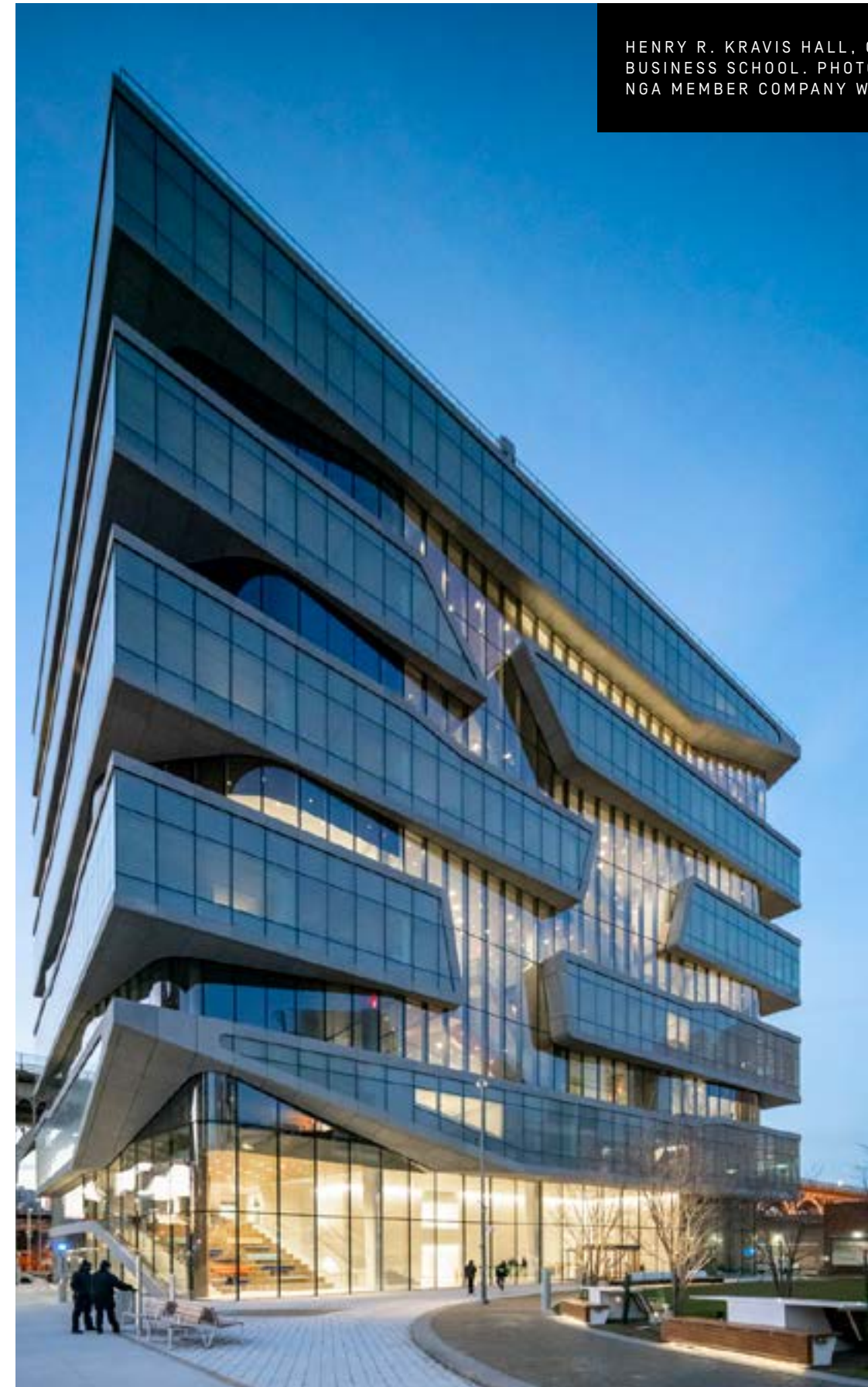
Looking at more industry-specific market drivers, the NGA offered updates on code, standard and regulatory issues to watch throughout the year, including during several Thirsty Thursday webinars, and in keynotes at the BEC Conference and GlassBuild Main Stage.

AI and automation

Automation and artificial intelligence technologies are quickly advancing in the glass industry, and NGA has offered educational programming on the topic for every type of glass company to ensure they aren't left behind. Glass Performance Automation Days, an NGA event targeting glass fabricators, provided educational presentations from machinery equipment and software suppliers looking at how digitalization is changing glass fabrication.

The use of AI was also a centerpiece of education during the year, with Stefanie Couch, founder of Grit Blueprint, speaking on the topic at the BEC Conference, the Glazing Executives Forum and during a Thirsty Thursday webinar.

[NGA has many Thirsty Thursday webinars available on demand.](#)



HENRY R. KRAVIS HALL, COLUMBIA BUSINESS SCHOOL. PHOTO COURTESY OF NGA MEMBER COMPANY W&W GLASS LLC.

EVENTS

EVENTS FOR ALL AUDIENCES

NGA serves every industry segment through a range of successful events



GLASSBUILD AMERICA 2024 WAS ITS BIGGEST EDITION IN 16 YEARS IN A NEW HOST CITY OF DALLAS, TEXAS.

GlassBuild America Goes Big in Dallas

For All in Glass and Fenestration

The National Glass Association welcomed more than 9,400 registrants to GlassBuild America: The Glass, Window & Door Expo, Sept. 30 - Oct. 2 in Dallas, the largest edition in 16 years. Attendees experienced a massive show floor at the Kay Bailey Hutchison Convention Center, where 535 exhibitors showcased their products and services on a show floor occupying over 200,000 net square feet. GlassBuild 2024 hosted 115 new exhibiting companies, and drew participants from 49 states, plus the District of Columbia and Puerto Rico, as well as Canada, Mexico and 57 other countries.

For the first time, the NGA hosted the show in Dallas, which created new excitement during the three days of the show.

“We anticipated an event in Dallas that

put renewed emphasis on the innovation and advancements of the glass, glazing and fenestration industries as well as provided fresh solutions for the challenges at hand, particularly labor, and this year’s show more than delivered,” says Nicole Harris, NGA president and CEO. “Exhibitors and attendees alike came ready for the business-building and knowledge-gathering they rely on at GlassBuild, and it showed throughout the event.”

Exhibitors reported that the show floor had renewed energy, and that the new location allowed face-to-face meetings with new customers.

GlassBuild 2024 also hosted the 18th NGA Glazing Executives Forum, the third annual Blueprint for Collaboration educational event for the A&D community, and featured a full roster of education and events on the GlassBuild Main Stage. For the first time, Architectural Glass & Metal Technician (AGMT) certification testing

occurred during the show. Twenty-one experienced glaziers from several states and one from Canada came to test their skills on custom testing rigs to prove their knowledge of and ability to properly perform fundamental glazing procedures. Another first-time addition to the event, 50 local students from Plano ISD Academy High School attended to talk with exhibitors, listen to Main Stage sessions, and tour the AGMT rigs, to see the career opportunities available in the glass and fenestration industries.

“Talk about an awesome GlassBuild trip,” says Jose Rodriguez, business development design manager, Oldcastle BuildingEnvelope. “[We] got the team together to enjoy some in-person gatherings, great learnings, wonderful field trips, and all the fantastic face-to-face time that comes with it all! Thanks NGA and team for getting us all together.”

The next GlassBuild America will take place Nov. 4-6, 2025, at Orange County Convention Center in Orlando, Florida.

BEC Conference draws glaziers to Nashville

For Glaziers

The 2024 BEC Conference returned to Nashville in March, drawing a crowd of about 800 attendees, including glass industry heavyweights, experts in technology and advancement in glass, speakers on recruitment and workforce development, and more. The event offered a day and a half of critical educational information, tabletop displays and invaluable networking time.

The event kicked off with two State of the Industry keynotes from prominent leaders in glass. President of Harmon Inc. Troy Johnson presented the talk, “Disruption is Coming? Are You Ready?”, while

President of Vitro Architectural Glass Ricardo Maiz presented on the state of the flat glass industry.

The event spotlighted technological advancements in glazing through several sessions, including a keynote from Stefanie Couch, founder of Grit Blueprint, on the importance and power of artificial intelligence and how it can “change the fate of your business.” Additionally, Conley Oster, co-founder of Raise Robotics, spoke about the use of robotics in the construction industry, while Principal Architect for SLAM Collaborative Keith Fine and Director of Preconstruction for Aragon Construction Matt Aragon sat down together to discuss using technology to better collaborate during projects.

The other main theme of the conference was people—finding workers, training them, keeping them, and supporting them. NGA’s Vice President of Workforce Development Jenni Chase and Vice

The National Glass Association is a glass industry event powerhouse, delivering the leading North American trade show for the glass and fenestration industries, GlassBuild America, along with numerous other conferences, educational sessions and advocacy events. In 2024, the NGA hosted seven industry-leading events throughout the year, providing critical opportunities for connection and education for companies in all parts of the industry.

February

NGA Glass Conference: Isle of Palms | Charleston
For fabricators, suppliers and technical leaders

March

Building Envelope Contractors (BEC) Conference, Nashville
For glaziers

Glass Processing Automation Days (GPAD), Nashville
For fabricators

May

Glass & Glazing Advocacy Days, Washington, D.C.
For all in the glass industry

August

NGA Glass Conference: Milwaukee
For fabricators, suppliers and technical leaders

September

Glazing Executives Forum
For glaziers and installers

Blueprint for Collaboration
For architects

September/October

GlassBuild America: The Glass, Window & Door Expo
For all in the glass and fenestration industries

President of AllStar Glass Jodi Martinez discussed recruitment of the next generation. Tom Jackson, president and CEO of Steel Encounters, laid out everything he's learned in the past six years about employee engagement. He says the three main reasons employees lose engagement are anonymity, irrelevance and "immeasurment," meaning they don't have a measurement of how well or how poor their work has been.

Additionally, two speakers addressed how the opioid crisis is impacting companies. Cal Beyer, certified wellness practitioner for SAFE [Stop the Addiction Fatality Epidemic] Project and David Argus, director of operations at Karas & Karas Glass Co., gave a poignant and powerful presentation on addiction treatment and recovery, and how it pertains to the construction industry.

GPAD targets fabricator factory advancements

For Glass Fabricators

Directly following the BEC Conference was GPAD, or Glass Processing Automation Days. Held every other year, the event drew an audience of glass fabricators for two days of education about factory advancements. During the event, machinery, equipment and software suppliers offered insights on how fabricators can address their biggest challenges, including labor, quality control, plant productivity and more.

Automation took center stage at GPAD, which also featured talks on AI, product launches, glass distortion, tempering, lamination and fabrication. Several suppliers discussed the challenges in implementing automation on the factory floor. When it comes to "avoiding the automation scaries," Chris Cullum of CMS Industries says, "you have to walk before you can run."

NGA Glass Conferences draw technical leaders

For Glass Fabricators & Suppliers

NGA Glass Conferences bring together glass technical and advocacy leaders to continue development of essential industry resources; to discuss need-to-know code, standard and regulatory topics that affect industry companies; and, to network among peers.

In 2024, NGA hosted the NGA Glass Conference: Isle of Palms | Charleston in February and the NGA Glass Conference: Milwaukee in August. At each conference, about 100 technical and advocacy leaders in glass gathered for meetings for the NGA Advocacy, Fabricating and Forming Committees, in addition to important educational presentations and panels.

The Isle of Palms meeting included discussion of the NGA's collaborations with the Department of Energy, a practice session for the association's Glass & Glazing Advocacy Days, and a workshop on laminating best practices. Other highlights include a comprehensive look at new codes and standards, and a panel discussion on spandrel glass.

In Milwaukee, attendees continued their NGA Committee work and addressed additional topics on advancements in vacuum insulating glazing, material transparency standards, updated codes and opportunities for advocacy. Attendees also heard three case studies of notable glazed projects in the host city of Milwaukee.

Glazing Executives Forum spotlights risk, forecasts, technology and more

For Glaziers and Glass Installers

The Glazing Executives Forum, now in its 18th edition, drew more than 220 attendees on Sept. 30 for discussion of AI, risk forecasting, estimating best practices

and more. The event also included a meeting of the NGA Installing Committee and the return of economic forecaster, Connor Lokar of ITR Economics. The Forum was held at the Kay Bailey Hutchison Convention Center in Dallas, in conjunction with GlassBuild America.

Additionally, for the first time, the Glazing Executives Forum offered workshop tracks that allowed attendees to split into smaller groups to meet and converse directly with experts in the field about specific industry topics. Tracks included: AI at Your Glazing Company, Shower Enclosures Solutions Share, and Effective Recruitment Strategies.

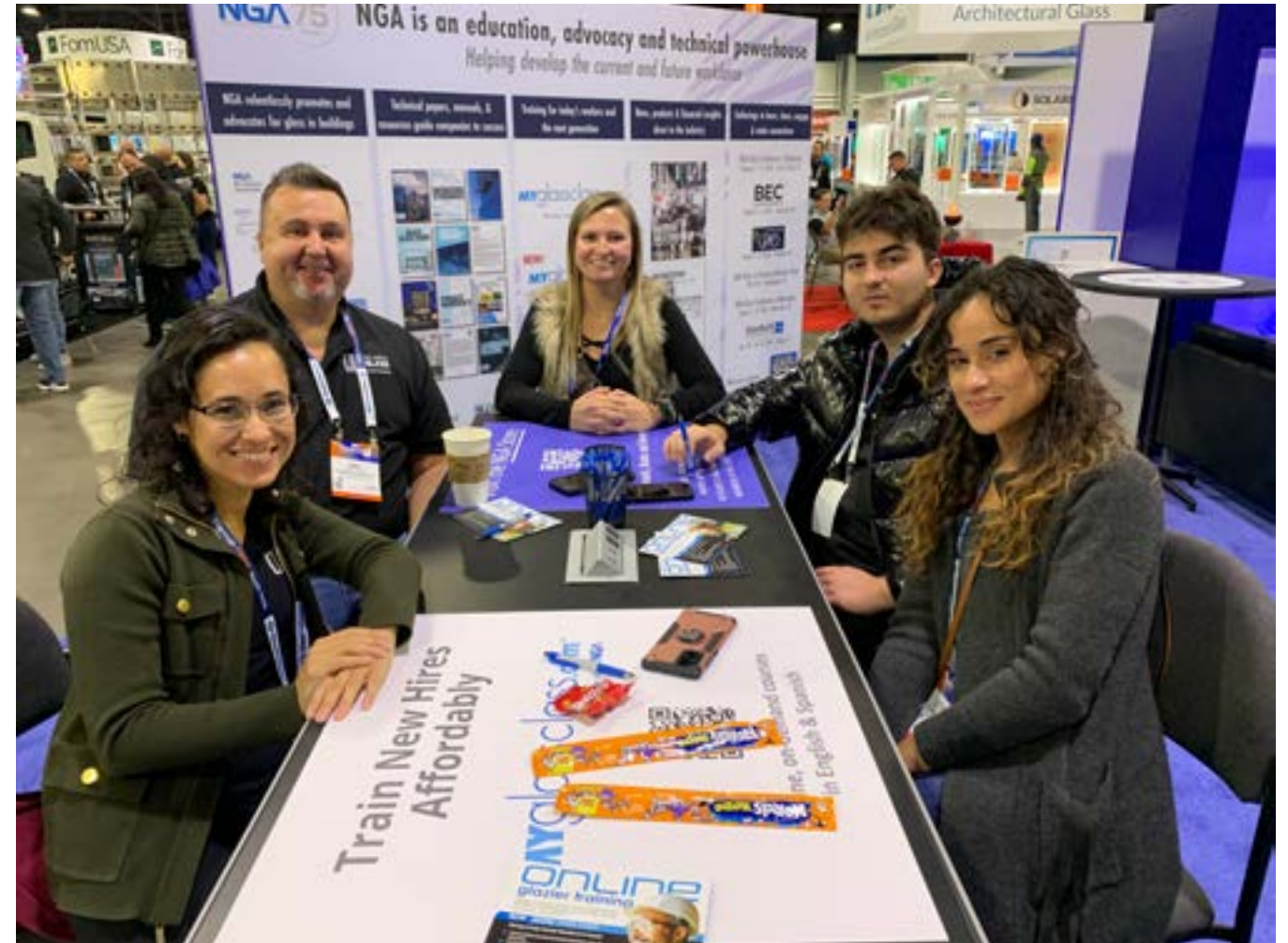
Blueprint for Collaboration demonstrates the best of high-performing products and design team dynamics

For Architects, Designers and Engineers

The third annual Blueprint for Collaboration was held for the first time in conjunction with GlassBuild America. Programming offered up to 5 AIA learning units on topics addressing high-performance glass products, a case study in collaboration, codes and standards for architects, and construction forecasts.

Coming Soon: A new event for fabricators

The NGA is proposing a new event for the glass fabrication audience, launching in 2026. The new event will combine the strengths of the association's existing fabricator conferences while increasing attendance, drawing more fabricators of all sizes, and providing education for employees throughout fabrication companies, including executives, technical leaders and plant personnel.



GLASSBUILD ATTENDEES LEARN ABOUT NGA RESOURCES.

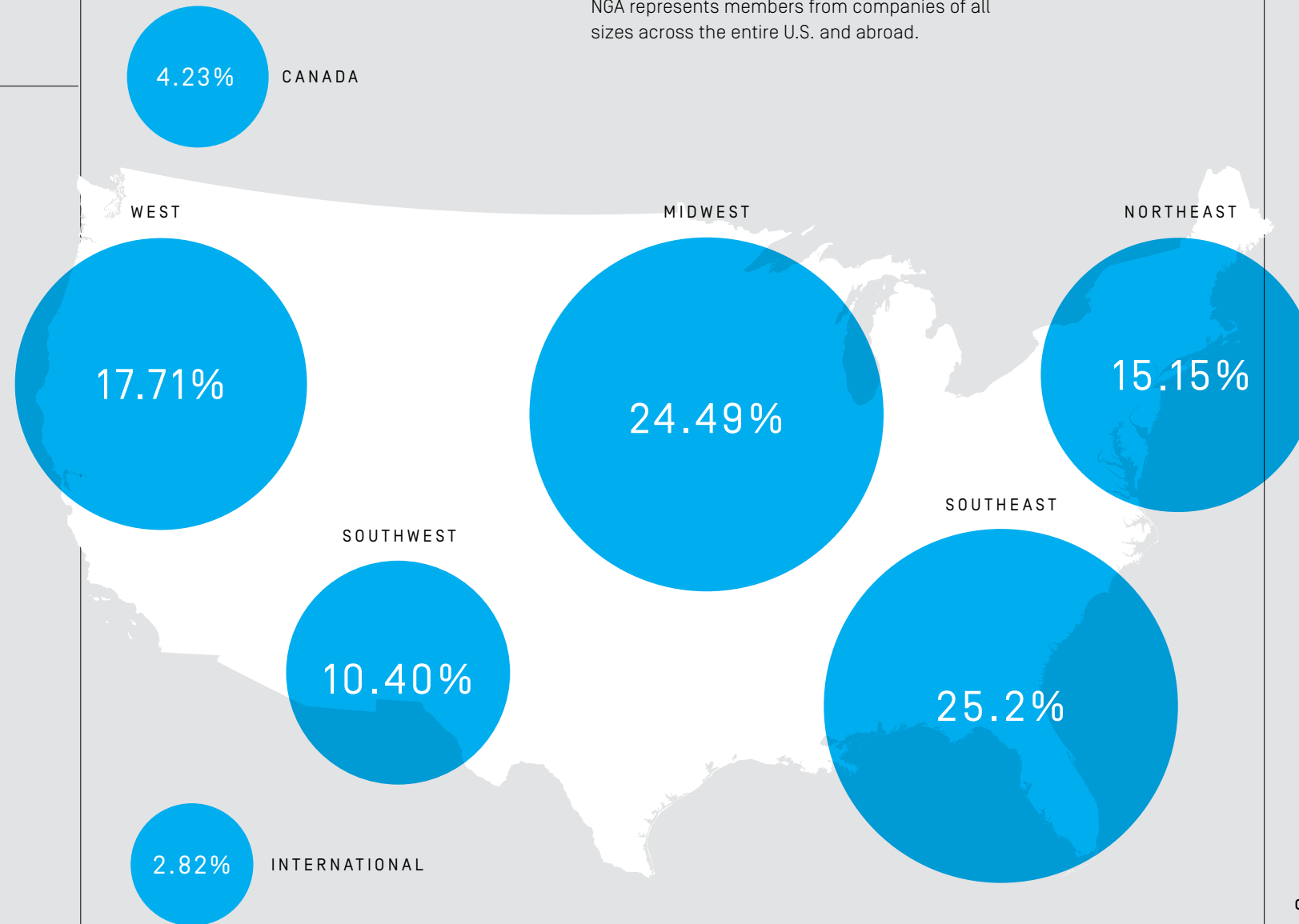
COMMUNITY

WE ARE NGA

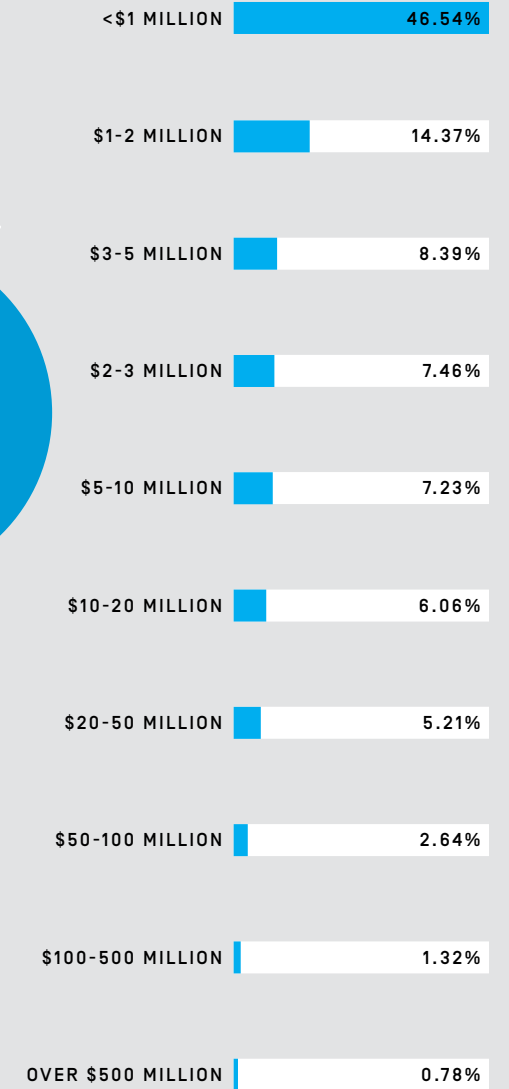
Members and volunteers strengthen the association and give us a united voice

MEMBERS BY THE NUMBERS

NGA represents members from companies of all sizes across the entire U.S. and abroad.



ANNUAL REVENUE



NGA FOUNDED

1948

MEMBER COMPANIES

1,800+

NEW MEMBERS

164

NGA welcomed 164 new member companies in 2024. Read the full report to see the list of new companies.

*AS OF OCT. 24, 2024



SEE THE LIST OF NGA'S COMMITTEE AND TASK GROUPS.

VOLUNTEERS AND TASK GROUPS

Thank you.

NGA thanks its dedicated volunteers for their tireless efforts and time to advance the industry.

MEET THE 2024-25 BOARD OF DIRECTORS

Rick Locke, Chair, Montana Sash & Door, Bozeman, Montana
Ron Crowl, Immediate Past-Chair, FeneTech, a Cynclly company, Aurora, Ohio
Tim Kelley, Chair-elect, TriStar Glass Inc., Catoosa, Oklahoma
Jim Stathopoulos, Treasurer, Ajay Glass Co., Canandaigua, New York
Silas Koonse, Koonse Glass Co. Inc., Columbia, Missouri
Courtney Little, Ace Glass, Little Rock, Arkansas
Jodi Martinez, AllStar Glass Inc., Spokane Valley, Washington

Syndi Sim, Q-railing, Tustin, California
Tara Brummet, Vitrum Industries, Langley Township, British Columbia, Canada
Taylor Anderson, Anderson Aluminum Corp., Columbus, Ohio
Vipul Bhagat, Skyline Design, Chicago, Illinois
Mark Seeton, Vitro Architectural Glass, Pittsburgh, Pennsylvania
Joey Aragon, Aragon Construction, Inc., Montclair, California

VOLUNTEER OF THE YEAR



Aaron Thompson
Principal research engineer, Viracon

Thompson serves as chair of the NGA Fabricating Committee and has been involved in NGA activities for more than 15 years.

HARRY MILES AWARD



Chuck Wencil
Viracon

Wencil, who has worked for 50 years as a glass processing engineer at Viracon, is the sixth recipient of the Harry Miles Award of Excellence.

NGA also recognized three members—who have recently announced plans for upcoming retirements—for their longtime participation and volunteerism: David Evans, quality manager, Guardian Glass North America; Tim McGee, sales manager, Glass Coatings & Concepts LLC; and Bill Sullivan, president/CEO, Brin Glass Co.

MEMBER BENEFITS

- MyGlassClass.com courses for glaziers and fabricators are free to members
- 50+ safety bulletins
- 120+ technical and advocacy downloads
- Codes and standards Q+A
- AIA-certified presentations
- Exclusive educational webinars
- Downloadable workforce development toolkits
- Downloadable resources from the American Subcontractors Association
- All NGA downloadable resources in the NGA Store are free to members
- And more

NGA-AFFILIATED CHAPTERS

- NGA has endorsed the following regional glass associations as affiliated chapters:**
- California Glass Association
 - Colorado Glazing Contractors Association
 - Connecticut Glass Dealers Association
 - Houston Area Glass Association (a division of TGA)
 - Massachusetts Glass Dealers Association
 - Mid-Atlantic Glass Association
 - Minnesota Glass Association
 - Texas Glass Association
 - TGA North Texas Division (a division of TGA)
 - Utah Glass Association
 - Washington Glass Association



NGA'S RESOURCE HUB CONNECTS YOU WITH THE RESOURCES WE HAVE FOR OUR MEMBERS AND THE INDUSTRY!

PUBLICATIONS AND MORE

NGA AMPLIFIES INDUSTRY MESSAGES

Websites, newsletters, magazines, social media and more serve as effective channels for sharing the latest industry news, engaging with our members and educating the industry

NEWSLETTERS

Through both digital and print assets, NGA reaches its members and the glass, glazing and fenestration industries at large by the tens of thousands. No matter if you prefer to read your news on paper or on screen, NGA has an option for you to stay up to date about the latest industry happenings and engage with colleagues on LinkedIn, Instagram and Facebook.

Glass Magazine Weekly

Emailed each Tuesday, Glass Magazine Weekly delivers the latest news, trends and more to nearly 9,000 inboxes.

Average open rate: 49.87%

Window + Door Weekly

Emailed each Wednesday, Window + Door Weekly delivers the latest news, trends and more to 7,500+ inboxes.

Average open rate: 51.06%

Advocacy & Technical Services Update

Emailed twice per month, this newsletter shares the latest initiatives and information from the association's technical team with 7,500+ inboxes.

Average open rate: 37.45%

NGA Member Update

Emailed twice per month, this newsletter details NGA's and the industry's top headlines to 8,600+ inboxes.

Average open rate: 38.98%



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WEBSITES

Page views

Glass.org + glass.org/store

704,887

WindowandDoor.com

471,145

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597,965

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SOCIAL MEDIA

The National Glass Association, GlassBuild America, Glass Magazine and Window + Door amplify messages through social media channels on Facebook, LinkedIn and Instagram.

MAGAZINES



Glass Magazine

Published eight times per year, Glass Magazine is the glass and glazing authority, reaching architects, glaziers, fabricators and more.

Key reports:

- Top 50 Glaziers
- Top Glass Fabricators
- Glass Magazine Awards
- Architect's Guide

Average readership per issue
56,210



Window and Door

Published six times per year, Window + Door examines the entire supply chain of the fenestration industry, from source to sale.

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