

NGA

NATIONAL GLASS ASSOCIATION with GANA

2020 ANNUAL REPORT



01

ABOUT THE NGA



1,700
MEMBER COMPANIES

FORWARD

The NGA member community is 1,700 companies strong and represents all aspects of the glazing and glass building products industry. We are contract glaziers. We are full-service glass companies. We are fabricators, manufacturers and suppliers.

As an organization that is driven by a future in which glass is the material of choice, this annual report summarizes key points of the last 18 months as aligned by NGA's four goals: **educate, promote, advocate and grow**. As you read through this report, you will learn more about how these goals are steering our daily work to help you grow successful companies.

The unique pandemic challenge of 2020 was met by member companies that drove hard to produce and install products to mitigate the disease impacts while also continuing development of many other innovative products and services that elevate safety and quality, add long-term value, meet and exceed code requirements, and improve overall well-being.

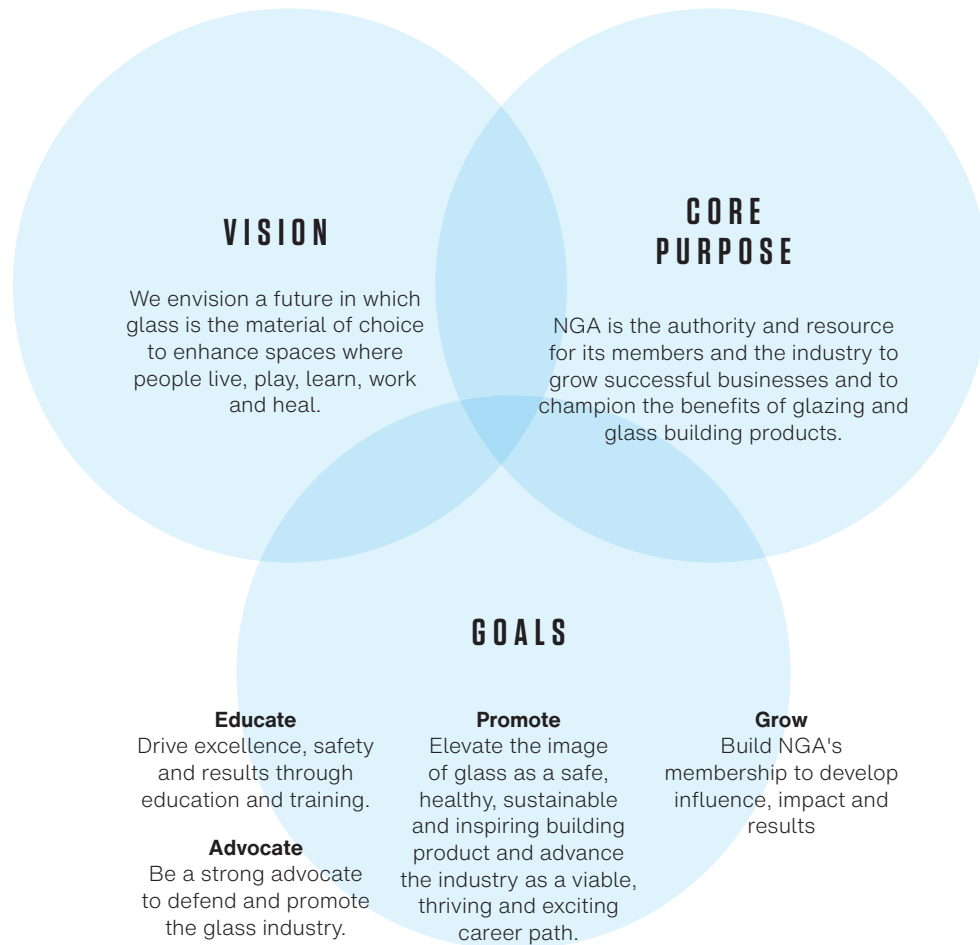
This report reminds us of how the glazing and glass building products industry continues to address the needs of the built environment, working through the association and as individual companies.

With your support and engagement, the NGA will continue pushing forward with our vision to enhance the spaces where people live, play, learn, work and heal *with glass*.

Thank you for your part in this story.



Nicole Harris
President and CEO
National Glass Association



NGA Past

NGA was founded in 1948 and has continually served the greater glass community since that time. On February 1, 2020, NGA commemorated the two-year anniversary of its combination with the Glass Association of North America (GANA). A significant amount of collaboration, change, refinement and (re) invention has already occurred in this short amount of time. Notably, the progress towards the betterment of the glazing and glass building products industry has only grown and improved.

[One Voice of the Industry:
The Path to Becoming the
Glass & Glazing Authority](#)

NGA Present

Faced with the challenging environment of 2020 and looking forward to 2021, NGA and its Board of Directors remain more committed than ever to our purpose, vision and goals. We continue to provide resources to protect, preserve and grow our industry, and help our members' companies succeed.

NGA Future

[The NGA Foundation](#)
a 501(c)3 nonprofit organization where tax-deductible donations can be made for training the industry and educating consumers about the many ways glass and glazing contribute to a safe, healthy, sustainable, and inspiring built environment.

Industry Leaders

NGA appreciates the generosity in time and expertise given by its board of directors, which represents the entire glazing and glass building products supply chain, and its volunteers who make up NGA's committees and task groups. Learn more about your 2020-2021 leaders:

[NGA Board of Directors](#)

[NGA Committees](#)

02

EDUCATE

ed·u·cate
verb

to drive excellence, safety and results through education and training.

NGA's resources for education and training take several forms to meet the needs of its members and stakeholders when and where they're at – whether that's at a jobsite, on the plant floor or in an office.





MyGlassClass.com

[MyGlassClass.com](https://myglassclass.com) continues to be the best and most practical approach to turning glass and glazing industry trainees into valuable personnel by boasting more than 60 courses for the industry. Nearly 3,000 users have been trained to date using the MyGlassClass.com platform.

Milestones:

May 2020: Thanks to generous grants from the Frieze Foundation and other donors, NGA's MyGlassClass.com online training courses were made available to the glass and glazing industry at no charge during the month of May.

June 2020: Launch of three new or improved NGA-developed courses:

- Glazing Math Essentials
- Interpreting Common Documents
- How to Cut Glass: Best Practices

Apprenticeship Program

Developed in cooperation with contract glaziers, full-service glass companies, and glass & glazing technical experts, the NGA Glazier Apprentice Curriculum meets Department of Labor requirements for registered apprenticeship training. Currently in use in Utah, Colorado, Oklahoma and Connecticut, the glazier apprentice curriculum offers 430+ hours of learning to fulfill the classroom instruction component of most three-year apprenticeship programs. The curriculum is regularly reviewed and updated by the NGA Installing Committee.

[Learn more.](#)

MyGlassClass.com Snapshot

Number of courses

60+

Users to date

3,000+

Courses completed

12,000

Number of new students in 2020

1,000+

TECHNICAL AND BUSINESS PUBLICATIONS

When it comes to learning about glass, NGA is your authority and resource. We offer in-depth glass technical papers (GTPs) and easy-to-read Glass Information Bulletins (GIBs), business manuals, and papers written and developed by industry experts for fabricators, glaziers, suppliers and manufacturers, and others involved in glazing and glass building products. Many technical resources are available at no cost to members, and members save up to 50% on all manual, guides and books. [Learn more at the NGA Store.](#)

Milestones:

2020: NGA released six new and nine updated GTPs:

- [Brand new Installed Decorative Glass and General EPD Education GTPs released.](#)
- [Two new GTPs on how to view and measure color of decorative glazing products released.](#)
- [Publication of Introduction to Vacuum Insulating Glazing GTP announced.](#)
- [New GTP on security glazing.](#)
- [NGA releases new resource: Glass for Personal Protective Barriers.](#)
- [Six new GTPs for the glazing and glass building products industry.](#)
- [Glass Floors and Stairs GTP](#) and [Proper Procedures for Cleaning Architectural Glass Products](#)

NGA Store Snapshot

GTPs

90

Downloads/purchases from the NGA Store in 2020

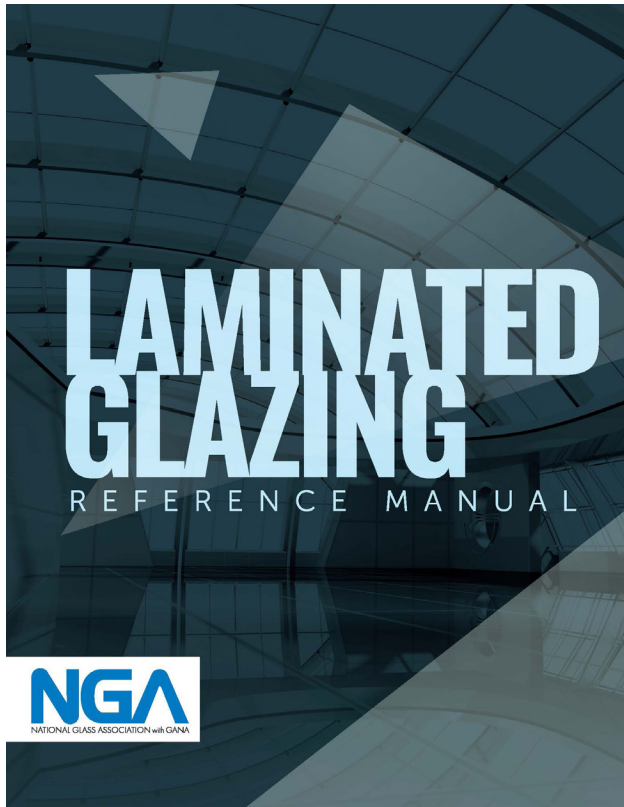
4,192

Manuals/Books/Guides

15

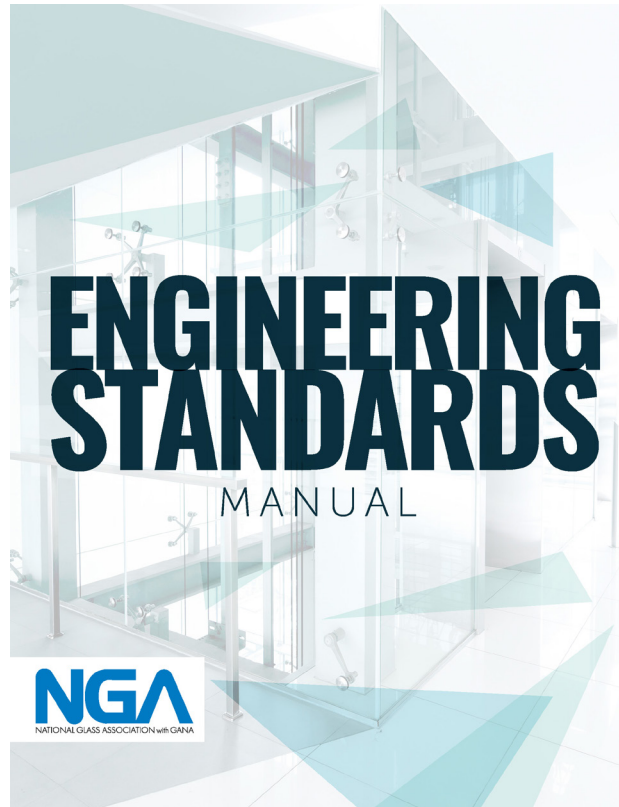
Members-Only Publications

29



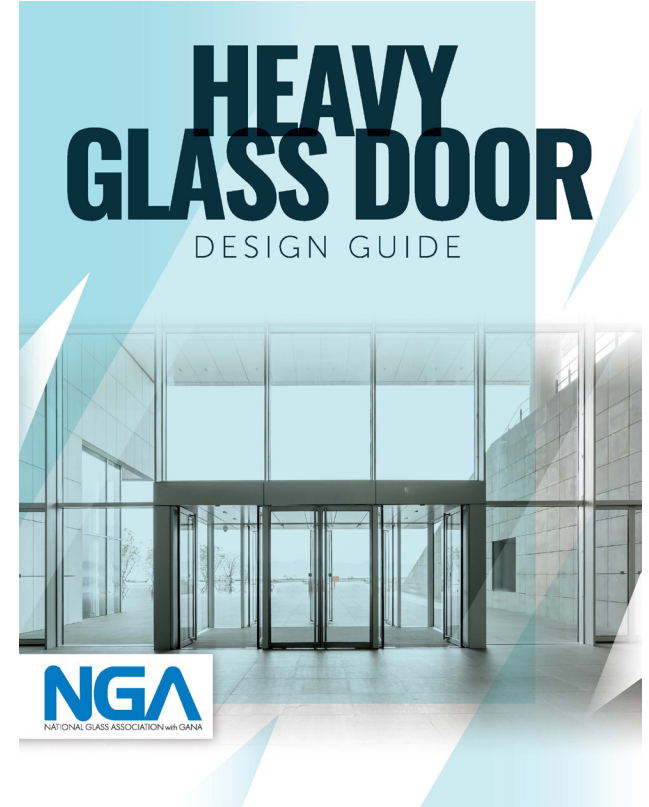
June 2019

Thanks to the dedication of task group members, NGA published an updated Laminated Glazing Reference Manual.



September 2019

NGA published an updated Engineering Standards Manual through the work of industry contributors and task group members.



January 2020

Updated for the first time since 1999, NGA released the Heavy Glass Door Design Guide through the coordination of task group volunteers, industry suppliers and testing facilities.



WEBINARS

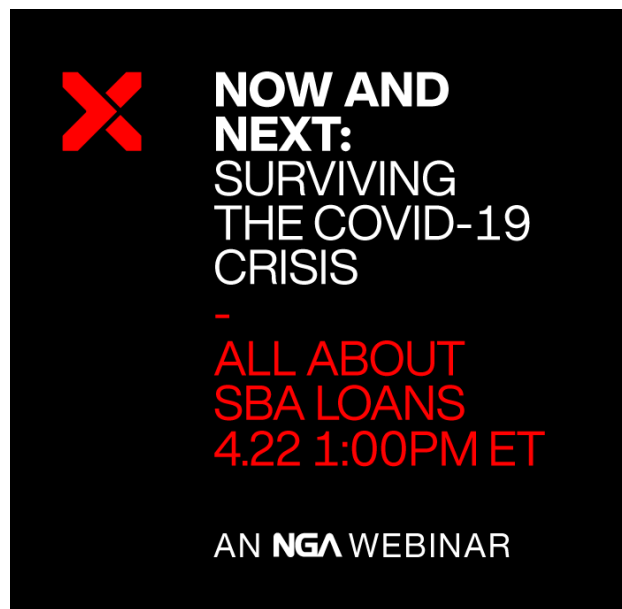
Thirsty Thursday

Quench your thirst for knowledge with NGA's Thirsty Thursday webinar series. The 30 to 60-minute sessions are held the third Thursday of each month and cover a wide range of industry trends and technical issues. Go to the Thirsty Thursday Webinar Series Archives to see [past recordings](#).

Milestones:

2019 – 2020: Some of the recent webinar topics have included Point-Supported Glazing, Wired Glass, Energy Building Codes, IBC Railing Requirements, Bent Glass Design & Fabrication, and Restoring Glass Surface Blemishes.

2020: Thirsty Thursday draws up to 300 attendees at its monthly webinars.



NOW and NEXT: Surviving the COVID-19 Crisis

In response to the coronavirus crises, NGA presented a webinar series entitled—NOW and NEXT: Surviving the COVID-19 Crisis—to provide actionable information on navigating uncertainty in the glass and fenestration industries. Recordings of these webinars are available to NGA members only in [The NGA Store](#), under the Members Only category.

Milestones:

2020: NOW and NEXT launches with five timely and informative webinars: All About SBA Loans, Essential Steps of a COVID-19 Business Plan, Sales and Marketing Steps, Legal Keys to COVID-19, and Employee Elements of COVID-19.



CONFERENCES & EVENTS

Held throughout the year, [NGA's conferences](#) and [GlassBuild America: The Glass, Window & Door Expo](#) provide our member community—and the glass and fenestration industry at large—opportunities to come together for networking, education, committee meetings, and more.

Building Envelope Contractors (BEC) Conference

A mix of educational presentations, tabletop displays and plenty of networking time, BEC is geared primarily to glazing contractors, with supporting participation by fabricators and suppliers. A meeting of the NGA's Installing Committee is also on the agenda.

Milestone:

March 2020: BEC Conference held in Nashville for the first time drawing a larger than expected attendance.

[Recap and video.](#)



GPAD: Glass Processing Automation Days

Founded in 2014 by FeneTech Inc., GPAD is a unique two-day opportunity to investigate new and innovative technologies in the glass fabrication industry and discover the additional benefits of automation and integration.

Milestone

April 2019: NGA and FeneTech jointly announced that NGA will take over as organizer and host of future GPAD events. FeneTech will continue to be involved in future GPAD events and recognized as a "Founding Partner."



NGA Glass Conference

Held twice annually, this is where like-minded business leaders gather to influence and advance the industry through our Forming, Fabricating, and Advocacy Committees activities.

Milestones:

January 2020: NGA announced new branding for its technical-focused conferences. NGA's Annual and Fall Conferences will now be known as NGA Glass Conferences.

July 2020: In a response to the COVID-19 pandemic, NGA Glass Conference occurred online and drew some of our highest attendance with 500 total registrants and 317 architects reached.

[August 2019 recap](#)

[January 2020 recap](#)

[July 2020 recap](#)





GlassBuild America: The Glass, Window & Door Expo

As the largest annual tradeshow for the glass and fenestration industries in the Americas, GlassBuild features more than 450 exhibiting companies, networking and education.

Milestones:

September 2019: GlassBuild America in Atlanta featured its largest trade show floor in a decade and ranked 97th on Trade Show News Network (TSNN)'s Top 250 Trade Shows list in the United States for 2019.

September 2020: The in-person event is cancelled due to COVID-19 and reemerges online as GlassBuild Connect for the entire month of September with 330 exhibiting companies, 70 educational presentations, 17 AIA LUs available to architects, and several other industry organizations representing all facets of the industry joining the effort.

[GlassBuild America 2019 recap](#)
[GlassBuild Connect 2020 recap](#)



NGA Glazing Executives Forum

Glazing Executives Forum

This one-day conference, held in conjunction with GlassBuild America, brings leaders of contract glazing companies together to learn and share best business practices unique to installing companies. A meeting of the NGA's Installing Committee is also held.

Milestones:

2019-2020: Glazing Executives Forum features the popular Annual Industry Economic Forecast, presented by Connor Lokar, ITR Economics.

2021 NGA Conferences & Events

(subject to change)

NGA Glass Conference: February

This one-day event is taking place online on Feb. 9, featuring two sessions on future implications of the latest codes and standards development and networking activities.

BEC Conference

Happening in March, this BEC Conference program will focus on preparedness and efficiencies for your business and feature a meeting of the Installing Committee.

NGA Glass Conference: Chicago

To be held in July, this conference is where the brightest technical minds behind the glass and glazing industry gather.

GlassBuild America

Being held Sept. 13-15 in Atlanta, GlassBuild is the industry gathering place. The Glazing Executives Forum and an Installing Committee meeting will also take place.

[More information on NGA's Conferences](#)
[More information on GlassBuild America](#)

FOR DESIGN PROFESSIONALS

AIA-approved Presentations

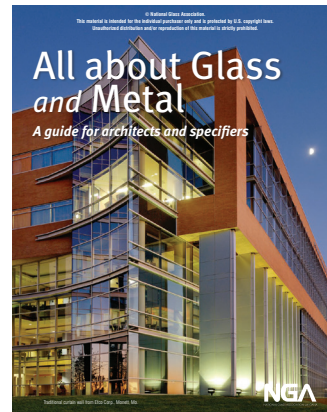
NGA is an approved AIA Provider of CES credits. Thanks to the involvement of our volunteer members, NGA has several approved presentations — for live in-person or online delivery — as part of its resource library. NGA members may use these presentations when connecting with the design community. Now is the time to stay in front of your stakeholders. Become an approved presenter and use NGA's AIA-accredited presentations now to host live, virtual meetings.

AIA Continuing Education Provider

- Introduction to Decorative Glazing
- Protective Glazing 101
- Fire-Rated Glazing Today
- Reflected Solar Energy of Glazing Systems
- The Value-Added Performance of Coated Glass
- The Many Benefits of Laminated Glass in Design
- Critical Reasons to Specify Insulating Glass
- Multi-Cavity Insulating Glass Units
- Understanding Applications for Heat-Treated

Glass and Metals: A Guide for Architects and Specifiers

This [comprehensive guide](#) combines all of the information in Glass Magazine's "All About Glass and Metals" six-part series into one, easy-to-read report.



The updated guide includes a new 6th series – The Architect's Guide to Performance Solutions, as featured in the [April 2020 edition](#) of Glass Magazine.

Glass & Glazing Design Academy

NGA enters a second year hosting its Glass & Glazing Design Academy with Architectural Record. NGA's accredited AIA presentations are available in an on-demand, multimedia format, available to architects and design professionals. [Explore the Academy.](#)



Courses

10

Users-to-date

2,900+

2019: NGA partners with Architectural Record to host the Glass & Glazing Design Academy

2020: 2,900 users and growing; top courses to date are: Understanding How Glazing Can Impact Safety and Fire Protection CEU Article, Key Advances in Fire-Rated Glazing, Navigating the World of Decorative Glass, Critical Reasons to Specify Insulating Glass, and The Many Benefits of Laminated Glass in Architectural Design.

03

PROMOTE

pro·mote
verb

Elevate the image of glass as a safe, healthy, sustainable and inspiring building product and advance the industry as a viable, thriving and exciting career path.

NGA maintains several avenues of engagement with our members, stakeholders and the industry. These include magazines, newsletters and websites.



Milestones

Glass Magazine and Window + Door
Glass Magazine, the glass and glazing authority, delivers complete coverage of the architectural glass and metals industry. As the official publication of NGA, it serves glazing contractors, full-service glass companies, fabricators, manufacturers and architects.

Covering the entire residential fenestration industry, from source to sale, **Window + Door** is produced by the National Glass Association and is the official publication of GlassBuild America: The Glass, Window & Door Expo.

2019

NGA launched new, redesigned concepts for Glass Magazine and Window + Door. Featuring bold formats and new industry coverage, they now reflect the advanced direction of our industries.

2020

NGA launched new websites for [glassmagazine.com](https://www.glassmagazine.com) and [windowanddoor.com](https://www.windowanddoor.com) to provide content in more organized, accessible and mobile-friendly formats.



Glass Magazine – Key Reports

- [Top 50 Glaziers Report](#)
- [Top 50 Glaziers List](#)
- [Top Glass Fabricators Report](#)
- [Top Glass Fabricators List](#)
- [Float Glass Industry Report](#)
- [Industry Forecast Report](#)



Window + Door – Key Reports

- [Top Manufacturers Report](#)
- [Industry Pulse Report](#)
- [Automation Trendhunter Report](#)

NGA Member Updates

NGA members receive updates twice per month to help keep them better informed on NGA's activities at a glance. The Member Update has been redesigned for 2021 for easier readability.

Most-clicked articles

- Downloadable Resource: [Contracts 101 For Glaziers Amid Worksite Closures](#)
- Fact Sheet: [Do Your Employees Qualify for Paid Leave Due to COVID-19?](#)
- [NGA Releases New Resource: Glass for Personal Protective Barriers](#)
- By the numbers: [Top 10 Publications from the NGA Store](#)
- [NGA Welcomes New Boared Members](#)
- [Year-end Message from President & CEO Nicole Harris](#)

COVID-19 Information and Resources

Sent out each month to NGA members, NGA's Advocacy & Technical team provide insights into how NGA is promoting the use of glass in the built environment.

In response to COVID-19, NGA created a [central hub](#) of information, resources and original content from Glass Magazine and Window + Door dedicated to covering the constantly evolving pandemic and its effect on our industry.

NGA Advocacy & Technical Updates

Most-clicked articles:

- BEC [Conference 2020 in Pictures](#)
- At 2020 BEC Conference, [Glaziers Look to Challenges and Opportunities Ahead](#)
- [Join Architects at NGA Glass Conference](#)
- [From the Fabricator: BEC Conference Recap 2020](#)
- [NGA Committees Year in Review](#)
- [VIDEO: BEC Conference 2020 Draws Largest Crowd in More than a Decade](#)

Milestones

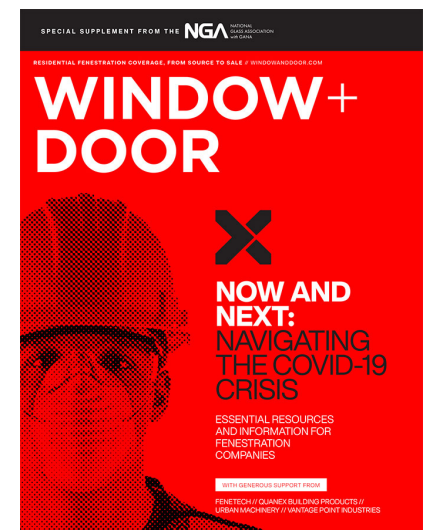
March 2020: NGA's COVID-19 [information and resource hub](#) launched.

April - June 2020: NGA presents five [NOW and NEXT: Surviving the COVID-19 Crisis](#) webinars.

May 2020: Glass Magazine releases special issue: [Essential COVID-19 Resources and Information for Glass and Glazing Companies](#)

Window + Door releases special issue: [Essential COVID-19 Resources and Information for Fenestration Companies](#)

November 2020: [Glass Magazine Innovation in Crisis](#) and [Window + Door Innovation in Crisis](#) presented to recognize the extraordinary innovation among companies during the pandemic.



04

ADVOCATE

ad·vo·cate

verb

To defend and promote the glass industry.

NGA's advocacy and technical initiatives respond to the relentless, ever-changing challenges to our industry. NGA is the glass and glazing authority; we are a resource for our members and the industry at large. We thank our volunteer members, industry partners and expert consultants who work tirelessly to ensure glass and glazing is at the forefront of all discussions impacting building regulations and innovation in construction.



Advocacy One-Pagers

The purpose of these new documents is to format advocacy requests related to glass industry issues into a quick-reference format to help stakeholders and legislators easily understand the issues at hand.

Influencing Legislation with Advocacy One-Pagers

When the California Department of General Services establishes the maximum Global Warming Potential for Flat Glass allowed for public works projects, they will have NGA's advocacy one-pager for reference. Our request to set the GWP at 1716 kg CO₂ eq is influential because it is based on a collaboration among flat glass manufacturers.

Visit glass.org/about-nga/advocacy


 NATIONAL
GLASS ASSOCIATION
with GANA

ADVOCACY

Bird-Friendly Glazing in Building Construction

The Request:

Responsible construction should incorporate bird-friendly glazing into the specification. Support the implementation of bird-friendly design strategies in your local building code.

The Issue:

Clear and reflective surfaces in residential and commercial structures in urban, suburban, and rural landscapes can be invisible threats to birds.

Clear surfaces may create perceived flythrough conditions, and reflected surfaces may create reflected habitat conditions. Both of these conditions may render the surface invisible to birds.

Birds may perceive images reflected in the glass such as vegetation to be real and may fly into the glass thinking they are trees or sky.

Plants and trees placed in a glass-enclosed lobby for aesthetic and environmental reasons can attract birds in flight, who do not recognize the glass as a barrier.

Artificial lights in buildings visible through glass can obscure the light from the moon and stars, which provides natural direction to migratory birds.

The strategy:

Muting reflections by creating visual markers or patterns on the glass at a specific spacing and geometry can significantly reduce bird collisions. Such markers have been designed to address reflection and transmission conditions. Architects are specifying this type of glass, termed bird friendly glass, typically on the first four stories of buildings.

NGA Bird-Friendly Glass Design Strategies Glass Technical Paper is an additional resource. <https://www.glass.org/resources/publications/>

US Federal Bird Safe Buildings Act of 2019 (H.R. Bill 191) pending legislation would require public buildings incorporate bird safe building materials and architecture.

Research on bird-glazing collision prevention by American Bird Conservancy, Building Industry and Bird Conservation and FLAP has guided the development of bird friendly glazing, lighting and building design.

Mandatory and voluntary ordinances to prevent bird-window collisions at government and/or commercial buildings have been adopted by several states and provinces.

USGBC's LEED program offers credit for incorporating bird-friendly design.



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 NATIONAL
GLASS ASSOCIATION
with GANA

ADVOCACY

Flat Glass Global Warming Potential

The request:

When states or jurisdictions compile global warming potential for flat glass, we request setting the Global Warming Potential (GWP) limit for flat glass to:

1716 kg CO₂ eq.

The request of 20% above the industry-average referenced in Declaration Number ASTM-EPD121 is due to the inherent uncertainty of the life cycle assessment process and the inclusion of estimated variables and assumptions including, but not limited to, weighted averages, upstream/ downstream transportation and building/service life.

The Issue:

Stakeholders and sustainability programs want to better understand the environmental performance of glass products manufactured for buildings.

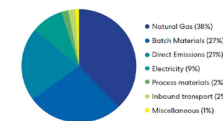
GANA Product Category Rule (PCR) for Flat Glass was published by NSF in 2014 describing the requirements for life cycle assessments (LCAs) and environmental product declaration (EPD) of flat glass.

NGA flat glass* member companies published an industry-average EPD for flat glass sold in the US in December 2019 (ref: ASTM-EPD121).

The EPD scope includes raw material production, transport of materials, manufacturing processes, product packaging, onsite storage and manufacturing waste (cradle to gate).

*members of the Forming Committee

Relative contribution of manufacturing inputs and outputs to Global Warming Potential



The strategy:

Results of the Flat Glass Industry-Average EPD:

- The industry-average Global Warming Potential for flat glass is 1430 kg CO₂ eq.
- Raw materials and direct emissions are the largest drivers of potential environmental impact of flat glass products.
- Many North America flat glass plants have taken measures to more efficiently control emissions through the use of environmental emission control systems.

The declared unit evaluated is one metric tonne (1000 kg) of flat glass, maintained for 30 years.

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Green New Deal

NGA's Advocacy Committee is prioritizing elements as addressed in the Green New Deal, as presented by the City of New York with its OneNYC 2050 plan, in order to formulate regular and strategic responses to ensure glass is continued to be viewed as the material of choice and utilized in new and retrofit construction.

Read [NGA's response](#) to Green New Deal, which also includes:

- NGA-produced [distillation of the OneNYC2050 report](#)
- Glass Magazine [editorial](#)



NGA's Advocacy Reach



Sustainability / Life Cycle Assessment

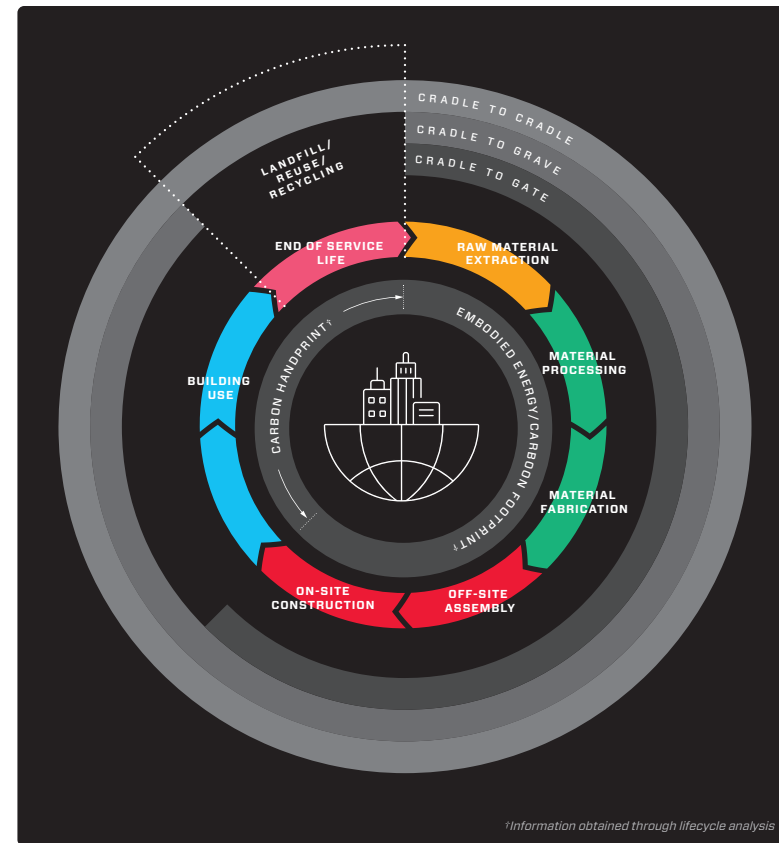
NGA continues to demystify sustainability initiatives including environmental product declarations, life cycle assessments and more.

The Building Enclosure Product Cycle infographic is intended to provide visual explanation of material processing and service life, and differentiate between cradle to cradle, cradle to grave, and cradle to gate.

In addition, NGA's Thirsty Thursday - The Business Impact of EPDs (and what's new with AB 262) – elaborates on these sustainability topics and address the 'why' of understanding these concepts.

- [View webinar recording](#)
- [Download handouts](#)

NGA's Forming Committee issued [public comments](#) on California AB262, voicing concerns about the bill's technical flaws which will affect the flat glass manufacturers and the industry. NGA also responded [regarding facility specific data](#) for the implementation of CA AB262. Download NGA's [Building Compliance FAQs](#) to learn more about the use of glass as it relates to CA AB262, EPDs, PCRs and more.



BUILDING ENCLOSURE PRODUCTION

Deciphering Cradle to Cradle, Cradle to Grave and Cradle to Gate

- Sourcing
- Manufacturing
- Fabrication: Value-Added
- Use occupancy: Service
- Deconstruction

05 GROW

grow
verb

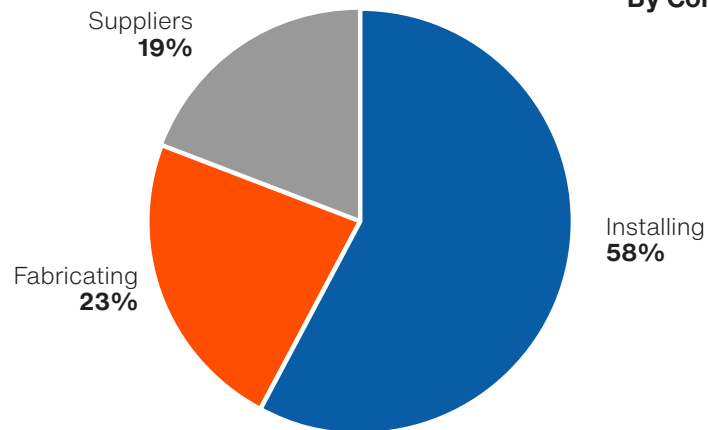
To build NGA's membership to develop influence, impact and results.

The NGA member community is 1,700 companies strong and represents all aspects of the glazing and glass building products industry. We take pride in being a resource to our members to help grow successful businesses.



NGA Membership Snapshot

By Company Type



By Location



NGA-affiliated Chapters

The [NGA Chapter Affiliation Program](#) supports regional glass associations through engagement in events, promotion and sponsorship of chapter activities, and offering NGA benefits to chapter members.

NGA was scheduled to attend the 2020 Mid-Atlantic Glass Association Glass Expo, the Texas Glass Association-sponsored Glass TEXpo, and GlassDay New England, hosted by the Connecticut and Massachusetts Glass Dealers Associations, and will resume participation in chapter-sponsored regional trade shows as opportunities become available.

Milestones:

- **2020:** NGA welcomed two new affiliated chapters - Utah Glass Association and Colorado Glazing Contractors Association
- **April 2020:** The Washington Glass Association hosted NGA President & CEO Nicole Harris as the featured speaker at their May 2020 meeting, providing an industry update and overview of NGA resources and benefits

Committees & Task Groups

NGA volunteers contributed their time and resources collaborating to create technical content for the industry. While individual volunteers only need to spend up to an hour a week on NGA tasks, NGA's total committee activities really add up.

1

Number of hours individual volunteers spend per week

54

Number of task group meetings attended over the course of the year

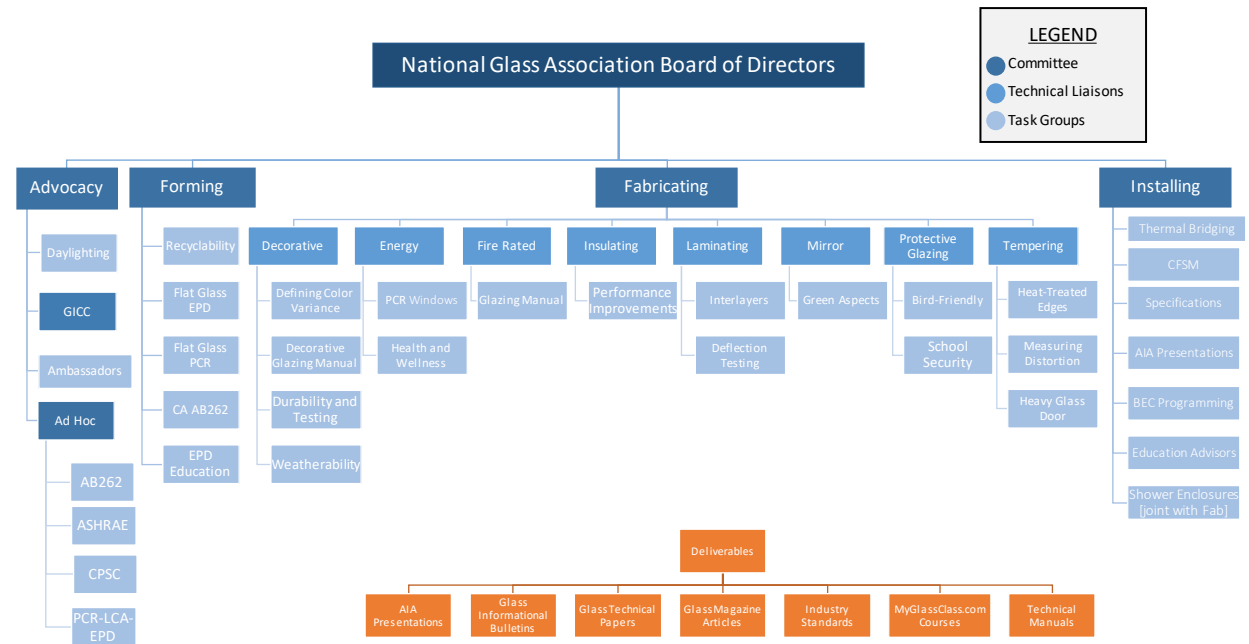
435

Number of total combined hours spent by volunteers annually

Volunteer Appreciation

NGA regularly celebrates the impact of volunteer service and the power of volunteers to come together to tackle tough challenges and build a stronger, more resilient community. For NGA, our community is the glazing and glass building products industry. We are grateful to the members who lend their time, talent, voice and support to the initiatives of the association.

Structure Chart



[See all current Committee Members and Task Groups](#)

NGA presented two membership awards in 2020 in honor of service, volunteerism and the betterment of the industry.

The **C. Gregory Carney Award** is the highest honor the Association has to give. The award was established in 2014 after the passing of Greg Carney, who served as Glass Association of North America (GANA) Technical Director for over two decades. It is an award that is for an individual who is involved and advocates for the industry and demonstrates the Association's mission and values within the industry: doing what is right for the industry as a whole, not what is one-sided or popular.

The **NGA Volunteer of the Year** award nominee must be an NGA member and have made significant contributions to the Association or profession in the past year.

Awards



C. Gregory Carney Award

A. William Lingnell
Lingnell Consulting



Volunteer of the Year 2020

Sylvain Denis

CONCLUSION



The challenges faced in 2020 underscore our industry's resourcefulness and willingness to adapt. NGA is proud to be part of this community. In 2021, we will continue to advance our goals and purpose as we focus on new opportunities to strengthen glazing and glass building products businesses.

A large, diagonal photograph of several skyscrapers under construction, tinted in a vibrant blue color. The buildings are covered in scaffolding and construction equipment, set against a cloudy sky. The image is positioned on the right side of the page, with a white background on the left.

National Glass Association
703-442-4890 | [glass.org](https://www.glass.org)