2018 Beyond Green™
High-Performance Building & Community Awards

Buildings

Systems

Initiatives

Innovations

Photo: The facade on the Roche Building 1 in Basel, Switzerland, featuring the MFree-S+ (closed-cavity facade) with automated venetian blinds integrated into the cavity. MFree-S+ is the winner of the 2017 Beyond Green™ Honor Award in the High-Performance and Communities Category. Innovation: MFree-S+ Facade, Permasteelisa Group. Photo by Johannes Marburg Photography, courtesy of Permasteelisa North America.

An Authoritative Source of Innovative Solutions for the Built Environment
The National Institute of Building Sciences is proud to announce the 2018 Beyond Green™ High-Performance Building & Community Awards. This unique program recognizes the initiatives that shape, inform and catalyze the high-performance building market, as well as the real-world application of high-performance design and construction practices.

The winners of the Beyond Green™ High-Performance Building & Community Awards will present their projects during Building Innovation 2019: The National Institute of Building Sciences Conference and Expo, to be held January 7-10, 2019. This presentation gives winners an opportunity to share directly with the leaders in the building community, highlighting the challenges and opportunities they faced while delivering high-performance buildings.

Winning projects will appear as case studies on the WBDG Whole Building Design Guide® (www.wbdg.org). Additional recognition will include a news release, an announcement in the Institute's newsletter, a plaque and potential inclusion in future Institute technical guidelines and publications. Projects that have received awards from industry organizations or publications may enter using the Institute member rate.

Entries must be completed no later than 5:00 p.m. ET on Wednesday, October 31, 2018, via the online submission process (www.nibs.org/BG).
High-Performance Buildings and Whole Building Design

A truly successful project is one where project goals are identified early on and where the interdependencies of all building systems are coordinated concurrently from the planning and programming phase. Further, it is one that helps the building community better understand the interrelationships of, evaluate and appropriately apply the eight high-performance attributes as design objectives: accessible, aesthetics, cost-effective, functional/operational, historic preservation, productive, secure/safe, and sustainable. Each of these design objectives is presented in the context of the others throughout the WBDG Whole Building Design Guide® website. The Beyond Green™ High-Performance Building & Community Awards Program relies on the concepts embodied in the whole building design objectives to produce high-performance buildings. Each design objective described herein is significantly important, yet it is just one aspect of what it takes to achieve a successful project.

Sustainable: Consider the environmental performance of building elements and strategies.

Safe and Secure: Design and construct buildings that resist natural and man-made hazards.

Productive and Healthy: Design for building occupant physical and psychological well-being.

Accessible: Ensure equal use of the building for all and plan for flexibility.

Aesthetic: Incorporate the physical appearance and image of building elements and spaces, as well as the integrated design process.

Cost-Effective: Select building elements on the basis of life-cycle costs.

Functional/Operational: Define the size and proximity of the different spaces needed for activities and equipment and anticipate changing information technology (IT) and other building systems equipment.

Historic: Protect and preserve, rehabilitate, restore or reconstruct historic buildings.

For more-comprehensive descriptions of the eight high-performance attributes as design objectives, visit www.wbdg.org.

Award categories include:

- High-Performance Buildings
  - New Commercial (1-3 years)
  - New Residential (1-3 years)
  - Existing Building Remodel/Retrofit (1+ years)
  - Historic Preservation Remodel/Retrofit (1+ years)

- High-Performance Attributes and Systems
  - Information Management
  - Enclosure
  - Safety, Security and Resilience
  - Operations and Maintenance
  - Sustainability

- High-Performance Initiatives
  - Policy Programs
  - Educational Initiatives
  - Consumer Awareness Efforts
  - Building Community Activities
  - Community Resilience and Hazard Mitigation Planning and Implementation

- Innovations for High-Performance Buildings and Communities
  - Funding Mechanisms
  - Insurance Products
  - Contracting Mechanisms
  - Design, Construction or Operations Processes
  - Code Department Administration and Code Compliance
  - Community Resilience Planning and Design Research
  - Emerging Issues (including Social Responsibility, Energy-Water Nexus, etc.)

Who Should Apply

- Architects and Engineers
- Consultants
- Builders
- Building Owners (Public & Private)
- Developers
- Universities, Schools and School Districts
- Trade Associations
- Researchers and Educators
- Product Manufacturers and Suppliers
- Marketing and Media Experts
- Utilities
- Municipalities
- Government Agencies
- Non-Profit Organizations and Advocacy Groups

Submission Guidelines

Entries must be completed NO LATER THAN 5:00 p.m. ET on Wednesday, October 31, 2018, via the online submission process at www.nibs.org/BG.

Payment will be accepted by American Express, Visa or MasterCard.
Category A: High-Performance Buildings

($250 non-member, $200 Institute member)

Eligible projects include:

- New Commercial (1-3 years)
- Including Public and Academic Buildings
- New Residential (1-3 years)
- Existing Building Remodel/Retrofit (1+ years)
- Historic Preservation Remodel/Retrofit (1+ years)

Evaluation Criteria:

- Whole Building Design Objectives. How you balanced the whole building design objectives and the synergies that result from their interaction.
- Integrated Design. The process used to bring together a unified team to address the various design objectives.
- Benefits to the Owner, Client and Community. Does the building have lower operations and maintenance costs or improved durability? How does the high-performance building provide greater benefit than a conventional building? How have resilience strategies (both at the building level and the community level) been incorporated?
- Innovation. Unique aspects to your approach and any innovative problem solving you used to overcome challenges.
- Energy and Environmental Considerations. How your entry promotes energy and water savings and the use of renewable resources.
- Building Information Modeling. How your entry uses building information modeling (BIM) throughout the building life cycle to improve performance.

Submission Requirements:

Submissions will only be accepted through the online submission process. Following is a brief outline of the type of information requested within the submission forms:

- Description:
  - Provide a description of the project, including the project team, the number and scope of buildings, history and completion date, site conditions/context and community.
- Evaluation:
  - Explain how the strategies you selected were implemented and evaluated in terms of their effectiveness. Include both qualitative and quantitative performance information.
  - Describe design trade-offs and interactions.
  - Describe both positive and negative aspects of the process. Include the composition of the project team that allowed goals to be met.
  - List resources and/or tools that were utilized in the design/construction/operation of the project and how they aided in the accomplishment of outlined goals.
- Describe how building materials, systems and product selection addressed the design objectives, goals and strategies.
- Describe how the project addressed existing site conditions and context, including the surrounding community.
- Project Results/Lessons Learned:
  - Describe goals that were met, especially as they relate to the eight design objectives.
  - Describe each phase of the project and how the eight design objectives were addressed. Project Phases include: Pre-Design/Planning, Design, Construction, Operations/Maintenance, and Post-Occupancy Evaluation.
  - Describe synergies that resulted from the strategies implemented.
  - How did you measure or evaluate the performance of the building?
  - Describe how the owner/client and community benefited.
  - Provide details on energy use, the indoor environment and resilience.
- Additional Supporting Materials:
  - Include materials/images that represent the building and strategies implemented in the project, such as a site plan, floor plans, elevations/sections, details and analyses/reports.
Category B recognizes projects that have demonstrated superior attention and performance in a specific high-performance building attribute or building system. Eligible attributes and systems and key criteria to be addressed in each are outlined below. Entrants may submit up to three attributes or systems per entry fee. Projects with more than three attribute or system entries should enter in the High-Performance Buildings category.

Eligible Attributes and Systems:
- **Information Management**, including building information modeling (BIM), energy management systems, building automation systems, computerized maintenance management systems
- **Enclosure**
- **Safety, Security and Resilience**
- **Operations and Maintenance**
- **Sustainability**
- **Other**, including additional whole building design attributes identified previously.

Evaluation Criteria:
Each submission will be evaluated on how successfully it addressed the following criteria, depending on the attribute or system identified.

- **Information Management**, including BIM, energy management systems, building automation systems, computerized maintenance management systems
  - Use of programs and systems that support interoperability and transfer of data across systems throughout the building’s life cycle
- **Enclosure**
  - Use of building enclosure commissioning to validate design and construction
- **Safety, Security and Resilience**
  - Development of an emergency management plan and education of facility occupants
- **Operations and Maintenance**
  - Benchmarking of energy and water use (at least annually)
- **Sustainability**
  - Benchmarking of energy and water use (annually, at a minimum)
  - Use of materials and practices that result in decreased resource use or materials with lower toxicity levels than traditional materials
- **Other**
  - See relevant sections on the WBDG Whole Building Design Guide for appropriate criteria

Submission Requirements:
Submissions will only be accepted through the online submission process. Following is a brief outline of the type of information requested within the submission forms:

- **Description**: Provide a description of the project, including the project team, the number and scope of buildings, history and completion date, site conditions/context and community.
- **Evaluation**: Explain how the strategies you selected were implemented and evaluated in terms of their effectiveness. Include both qualitative and quantitative performance information.
  - Describe design trade-offs and interactions.
  - Describe both positive and negative aspects of the process. Include the composition of the project team that allowed goals to be met.
  - List resources and/or tools that were utilized in the design/construction/operation of the project and how they aided in the accomplishment of outlined goals.
  - Describe how building materials, systems and product selection addressed the design objectives, goals and strategies.
  - Describe how the project addressed existing site conditions and context, including the surrounding community.
- **Project Results/Lessons Learned**: Describe goals that were met, especially as they relate to the eight design objectives.
  - Describe each phase of the project and how the eight design objectives were addressed. Project Phases include: Pre-Design/Planning, Design, Construction, Operations/Maintenance, and Post-Occupancy Evaluation.
  - Describe synergies that resulted from the implemented strategies.
  - How did you measure or evaluate the performance of the building?
  - Describe how the owner/client and community benefited.
  - Provide details on energy use, the indoor environment and resilience.
- **Additional Supporting Materials**: Include materials/images that represent the attribute and or system and strategies implemented in the project, such as a site plan, floor plans, elevations/sections, details and analyses/reports.
Category C: High-Performance Initiatives
($250 non-member, $200 Institute member)

In addition to the design, construction and operations of high-performance buildings, transforming the built environment requires education and outreach, as well as policies to support implementation. Category C recognizes those initiatives.

Eligible Initiatives:

- **Policy Programs.** Results from expert forums, code reforms, legislative initiatives or industry-led advocacy activities.
- **Educational Initiatives.** Curriculum development or delivery for workshops, conferences or distance learning applications; development of professional literature, books, newspapers and magazines; or development of continuing education programs for building industry professionals.
- **Consumer Awareness Efforts.** Media campaigns, creative advertising, grassroots educational programs or demonstration houses and buildings.
- **Building Community Activities.** Competitions, data collections and industry collaborations.
- **Community Resilience and Hazard Mitigation Planning and Implementation.** Climate/hazard adaptation/mitigation planning, evaluation programs, regional planning activities and preparedness exercises.

Evaluation Criteria:

- **Whole Building Design Objectives.** The successful resolutions to balancing the eight whole building design objectives, highlighting synergies resulting from their interaction.
- **Transferability and Marketability.** How the initiative can be replicated by or for others, thereby extending the reach of the project.
- **Energy and Environmental Considerations.** How the entry promotes energy and water savings and the use of renewable resources.
- **Resilience.** How the initiative contributes to the resilience of a building or community.

Submission Requirements:

Submissions will only be accepted through the online submission process. Below is a brief outline of the type of information requested within the submission forms:

- **Description:**
  - Provide a description of the policy, program initiative, product or activity.
- **Evaluation:**
  - Explain how your submission meets the evaluation criteria.
- **Results/Lessons Learned:**
  - Describe goals related to your submission that were met and not met, and reasons for these outcomes.
  - Describe synergies that resulted from the eight design objectives you address in your initiative.
  - Define how these results were determined and measured.
  - Describe benefits to your target audience.
- **Additional Supporting Materials:**
  - Include illustrative photographs, graphics and/or samples as appropriate.

Entrance at the Phipps Conservatory and Botanical Gardens. The oil barrels are a visual representation of the amount of CO₂ guests can prevent from being released into the atmosphere annually by switching to renewable energy. Part of the “Make the Switch at Phipps!” initiative, winner of the 2017 Beyond Green™ Honor Award, First Place in the High-Performance Initiatives Category.
Category D: Innovations for High-Performance Buildings & Communities

($250 non-member, $200 Institute member)

In the growing effort to achieve high-performance buildings and communities, many entities are implementing innovative methods, tools and practices to achieve performance goals. Such efforts may not be obvious during the design and construction process but nonetheless deserve recognition for their potential to influence future high-performance projects. Category D offers this opportunity for recognition.

Eligible Innovations:
- Funding Mechanisms
- Insurance Products
- Contracting Mechanisms
- Design, Construction or Operations Processes
- Code Department Administration and Code Compliance
- Community Resilience Planning and Design
- Research
- Emerging Issues (including Social Responsibility, Energy-Water Nexus, etc.)

Evaluation Criteria:
- **Whole Building Design Objectives.** The high-performance attributes the innovation addresses.
- **Benefits.** The benefits to the owner/client, community and the industry as a whole. Describe the uniqueness of the solution and how this innovation differs from current practice. How the innovation addresses a specific issue being faced by the industry.
- **Replacibility or Applicability.** How easily the innovation can be utilized on other projects.
- **Innovation.** Unique aspects of the innovation and the problem to be solved.
- **Energy and Environment.** How your entry promotes energy and water savings and/or the use of renewable resources.
- **Resilience.** How the innovation contributes to the resilience of a building or community.
- **Integrated Design.** How the innovation brings together a unified team to address the various design objectives.

Submission Requirements:
Submissions will only be accepted through the online submission process. Below is a brief outline of the type of information requested within the submission forms:

- **Description:**
  - Provide a description of the innovation, its purpose, the building types to which it can apply, participants in its development or implementation, and the cost of implementation (if known).
- **Evaluation:**
  - Explain how the innovation came to be developed, and describe how the innovation addresses a specific issue faced by the industry.
  - Describe current practices and why this one is superior to others.
  - Describe both positive and negative aspects of the innovation.
  - Describe synergies that resulted from the eight design objectives you address in your innovation.
- **Additional Supporting Materials:** Include materials that document results of the innovation, testimonials, explanatory diagrams, independent evaluations, awards, recognitions and analyses/reports as appropriate.
Submit Entry:  www.nibs.org/BG

Entry Due:  
Wednesday, October 31, 2018

Questions:  
Ryan Colker  
rcolker@nibs.org  
202-289-7800

How to Apply

Entries must be completed no later than 5:00 p.m. ET on Wednesday, October 31, 2018, submitted online at www.nibs.org/BG, and should include all supplemental materials (such as photos, images, floor plans, etc.).

Projects and programs that have previously been recognized by industry organizations or publications are eligible to enter at the National Institute of Building Sciences member rate. Please contact Ryan Colker (rcolker@nibs.org) for a code to obtain this special rate.

The National Institute of Building Sciences may use the content of any entries to educate and inspire the building industry by creating case studies, web pages and new program curricula. By participating in the awards program, entrants grant the Institute an unlimited, permanent, nonexclusive license, under which the Institute may film, tape, transcribe or quote from the materials and/or awards reception presentations; create derivative works; and publish in any format. The Institute will not be required to pay royalties or make any payment. Organizations or individuals presenting content considered proprietary, to the extent that it cannot be shared beyond the awards program, should not participate at this time.

The Beyond Green™ Awards jury is responsible for selecting those buildings, initiatives, attributes, systems, projects and innovations that best exemplify the eight design objectives of high performance, from all of the entries submitted to the Institute by the October 31 deadline.