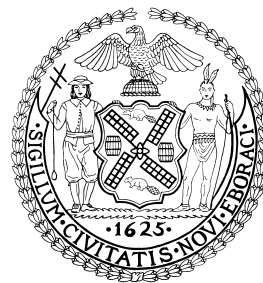


# Green Building Design Competition for New York City



"Sustainable development is crucial to New York City's future. Creating new buildings, retrofitting old ones to be more energy efficient and incorporating new technologies that are less expensive and environmentally friendly is vital for the continued growth of our City."

Michael R. Bloomberg, Mayor, New York City

"Green buildings are a proud legacy to leave future generations of New Yorkers. They connect our vision for urban growth with our concern for preserving our natural resources and protecting human health."

Jane Kenny, Regional Administrator, United States  
Environmental Protection Agency, Region 2

## **Introduction**

The New York City Department of Environmental Protection (NYC DEP) and the United States Environmental Protection Agency (EPA) Region 2 are sponsoring the ***Green Building Design Competition for New York City***. The purpose of this competition is to establish New York City as the leader in America's green building movement by: 1) showcasing how green building principles can be incorporated into new and existing New York City building stock; 2) encouraging the development of new ideas in green building design by providing a venue for those people dedicated to green building principles to share their experiences; and 3) uncovering and highlighting the impediments to green building in New York City so that government can better understand the changes needed to facilitate the proliferation of green buildings in New York City.

## **Cooperating Agencies**

NYC Dept. of Buildings	ConED
NYC Dept of City Planning	NY Chapter, USGBC
NYC Dept. of Education	Keyspan
NYC Dept. of Design & Construction	Metropolis Magazine
Museum of the City of New York	earth pledge
Environmental Business Association of New York State	NY Chapter, AIA
Croxton Collaborative Architects	Design Trust for Public Space

## **Background**

The large structures built in cities around the world to accommodate intense, even explosive growth often have a significant negative impact on the natural environment. The National Building Museum's introduction to its "Big & Green: Toward Sustainable Architecture in the 21<sup>st</sup> Century" exhibit, states that "(T)hese structures consume enormous amounts of energy in their construction and day-to-day use, place great burdens on water and sewer systems, and typically isolate occupants from natural light and air." Even smaller buildings, such as those that are commonly built in the outer boroughs of New York City, can have a similar impact on the environment and occupant health. In fact, according to EPA, homes and offices use an estimated 36 billion gallons of water per day (The City of New York's water consumption is 1.2 billion gallons a day, on average, according to New York City DEP) and it is estimated that the construction, renovation, and demolition of buildings, generates 136 million tons of debris per year. EPA also notes that on average, Americans spend 90 percent or more of their time indoors. This is why the quality of indoor air matters so much. These impacts can be reduced through the use of green building principles, such as low VOC (volatile organic compounds) paints, use of energy star appliances, water saving technologies and deconstruction and reuse strategies.

## **Eligible Applicants**

This is an open competition and the sponsors wish to encourage artists, architects, community members, environmental designers, landscape architects, urban designers, students, individuals, and teams to submit proposals.

## **Eligible Projects**

Any new construction or rehabilitation project built in, or designed for a specific site within the five boroughs of New York City will be accepted. The designed projects do not necessarily have to be for “actual” projects, but rather can be for “theoretical” projects. Projects must fall in one of five categories: 1. Industrial; 2. Single family houses and low rise (up to six story) dwellings; 3. Mid- and hi-rise apartment houses and hotels; 4. Commercial/ Office; 5. Other (i.e., Municipal Arts, Cultural, Assembly, Educational).

### **Submission Requirements**

Submissions must be on 8 ½" by 11" paper that is at least 50% post consumer recycled content. Bound submissions should not exceed ½" thickness. Please provide design materials (images, plans, renderings, and site photographs) for the project. **Please no models.**

Each submission *must* include:

1) A cover sheet that includes contact information (name, address, phone, fax, email), and which of the five categories (see Eligible Projects) your project falls under.

2) A brief overview (no longer than 1 page) of the project. The overview should include whether the project is new construction or a rehabilitation project; estimated or actual cost of the project; the location; a brief statement that describes the overall vision for the project. The overview should also describe how this vision is realized in the project, as well as how the project embodies the principles of green building design.

3) The main body of the submission should present a longer, detailed project description of the design and construction processes. The written analysis should describe how the building incorporates (or will incorporate) sustainable principles in the planning, design, procurement, demolition, construction, and operation of the building. Where possible, the resulting savings should be quantified. Please be sure to include a description of how the project takes advantage of the natural resources in our region and how the project fits into the larger built environment.

4) A discussion on the impediments faced in the process. Explain how these impediments affected the design, development and construction processes and, if possible, how the impediments were (or might be) overcome.

5) Design materials (images, plans, renderings, and site photographs) for the project. These should include a site plan, floor plans, elevations and sections with a 3D rendering, as necessary, to fully describe the building along with more detailed drawings, if desired, to highlight green aspects of building components. The design materials should be no longer than 12 drawings maximum. These will not count toward the final page total. **Please no models.**

## **Design Criteria**

Project descriptions should discuss how the project addresses the following criteria, where applicable:

- Use of low-impact materials (local, recyclable, recycled, and/or renewable)
- Use of low-impact construction techniques such as ultra-low sulfur diesel fuel (ULSD) in construction vehicles and minimization of traffic impacts
- Construction waste minimization and recycling
- Demonstration of how the project integrates the unique characteristics of the identified site and the existing community and infrastructure
- Strengthening Site-Building Relationship
- Safeguarding water quality (e.g., green roofs)
- Demonstration of water conservation and reuse techniques (e.g., water saving fixtures and fittings, and rainwater use)
- Energy efficiency, renewability, and conservation
- Durability and longevity of the project
- Conservation of materials and resources
- Indoor environmental quality
- Protection of human health and the natural environment
- Consideration of the economic, cultural and social impacts of the project

## **Judging**

Judging will be done by a panel of experts. The jurors will base their decisions on the following:

- How well the project's vision is articulated and integrates green building strategies
- How well the project fulfills the design criteria stated above
- How well the submission presents/identifies existing impediments within the NYC building/ construction arena
- How well the project integrates the environmental, economic and social aspects of the site

Judges may request a tour of already constructed buildings. However, this is not a competition requirement.

## **Jury Members**

Jury members will include:

- Deborah Taylor, Executive Director, NYC Department of Buildings
- Randy Croxton, Principal, Croxton Collaborative
- Robert Siegel, Principal, Robert Siegel Architects, and Chair, NY Chapter, AIA Committee on the Environment
- Martin Pedersen, Executive Editor, Metropolis Magazine
- Leslie Hoffman, Executive Director, Earth Pledge

- John Kriebel, Director, Office of Sustainable Design, New York City  
Department of Design and Construction
- Wayne Tusa, Chair, Liaison Committee, NY Chapter USGBC
- Catherine Shawn, Chair, Green Building Task Force, Environmental  
Business Association of New York State, Inc.

Please note, depending on number of submissions, there may be additional jurors.

### **Schedule**

- Announcement of Competition- mid/end of September 2003
- Intent to Submit Deadline - December 5, 2003 (extended from November  
10th)
- Deadline for Submissions- January 15, 2004
- Judging will occur over a three-week period at the end of January 2004
- The winners in each category will be contacted to develop a poster for  
display use in late February 2004
- Announcement of Winners/ display of all projects- late February 2004

### **Awards**

Two awards (new and rehabilitation) will be given in each of the five major site categories for a total of 10 awards.

Winning participants will be contacted and asked to develop a poster to summarize their project. Posters, and all other materials submitted, will be used for display. Poster Requirements TBD (size, submission address and directions, media preference). The competition winners will be widely publicized and the presentation materials will be showcased at different venues throughout New York City. Additionally, the ideas and issues identified in each submission will be used to advance the promotion and integration of green building principles into the New York City building arena.

The sponsors wish to reserve the right to award less than the full 10 awards if there are insufficient, applicable projects.

### **Registration**

Send an email with intent to participate in the competition to Edward Carey of the New York City Mayor's Office of Environmental Coordination at [ecarey@cityhall.nyc.gov](mailto:ecarey@cityhall.nyc.gov). Please include your name, contact information, likely team members, and site category. Registration is mandatory. If you plan on submitting more than one project, you must register each project individually. All sites must be within New York City. The deadline for expressing intent is **Friday, December 5, 2003**.

### **How to Submit A Project**

Please provide two copies of all materials to:

Mr. Edward Carey  
New York City Mayor's Office of Environmental Coordination

100 Gold Street, Room 2608  
New York, New York 10038

Submissions must be postmarked by **Thursday, January 15, 2004** to be considered.

**For more information**

For more information you can contact either **Edward Carey at (212)788-2928** or **Rabi Kieber, EPA Region 2, at (212) 637-4448** or by email at [kieber.rabi@epa.gov](mailto:kieber.rabi@epa.gov).

**Disclaimer**

The *Green Building Design Competition for New York City* Committee reserves the right to refuse any entry. We are not liable for lost, misdirected, late or substantially incomplete entries. All submitted materials become the property of the City of New York and will not be returned. Upon registration for this competition, all competitors agree to waive any and all claims against the sponsors and cooperating agencies which may result from the participation in this Green Building Design Competition. Also, by registering, the entrants agree that the Design Competition Committee shall have the unlimited right to publish and exhibit all entries and materials submitted by competition participants through any means of communication, including, but not limited to electronic posting. Entries may also be used as an educational resource.

EPA and the City of New York do not necessarily endorse or approve of the policies or products of any of the participating non-City agencies and no official endorsement should be inferred by an agency's participation in the Design Competition.