



# **Zerofootprint Building Re-Skinning Competition**

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Zerofootprint is an organization dedicated to a mass reduction in global environmental impact. We provide software and services to individuals, governments, universities, and corporations that measures and manages carbon footprint and engages employees and citizens worldwide in combating climate change.



## **Zerofootprint Building Re-Skinning Competition**

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## **Zerofootprint Building Re-Skinning Competition**

### **Addressing an Urgent Global Need**

We know how to build new buildings with low carbon footprints, but little attention has been paid to the thousands of existing structures worldwide that are extremely inefficient and have a massive carbon impact. In North America alone, such older, wasteful buildings account for 40% of all greenhouse gas emissions. The goal of the Zerofootprint Building Re-Skinning Competition is to advance the state-of-the-art in retrofitting such built spaces through better design and improved materials and technology, thus creating retrofitting systems that can be scaled to a large number of buildings and deployed globally.

### **About The Competition**

In order to promote innovation and advance the state-of-the-art in retrofitting the built space, Zerofootprint has recently launched an architectural competition at the Discovery 2009 Exhibition in Toronto on May 12th, 2009. Two more events announcing the launch of the Competition will take place in New York on June 2<sup>nd</sup>, 2009, and London in the near future. The competition welcomes teams from all over the world and will be accepting submissions until September 1, 2009. After reviewing all entries submitted, a panel of judges drawn from the architectural, academic and financial community will select the five finalists. These finalists will each receive a cash prize to be shared by the architectural team and the owners of the building for which the design was crafted. A key requirement of entries to this competition is that the building designs submitted must be pre-funded: that is, the designs submitted will actually be executed upon the chosen buildings. The competition will be judged on the following criteria:

- aesthetics
- energy efficiency
- smart technology
- return on investment



- potential as a solution for a large number of buildings.

## The Z-Prize

The winning five entries will be monitored for a period of three years after the completion of the retrofit to examine and compare how they actually perform in practice. The Z-Prize will be given to the building that has most reduced the energy per square foot, averaged over the three years of monitoring. The baseline will be taken as the audited total energy used by the building in its last year of operation prior to the retrofit.

The progress of these buildings and their energy usage will be displayed on Zerofootprint's website during this three-year period. We hope to make the Z-Prize the largest prize in the world for Architecture, in order to encourage high quality worldwide participation.

We encourage multidisciplinary teams made up of architects, engineers, and environmental scientists from anywhere in the world to enter this competition. This competition is also open to educational institutions receiving funding from Industry Canada's Knowledge Infrastructure Program.

## Competition Timeline

- **May 11-12, 2009:** Competition launched at the Ontario Centres for Excellence's Discovery '09 Event
- **June 2, 2009:** Competition launch at the Meeting of the Minds '09 in New York City
- **September 1, 2009:** Deadline for submission of designs
- **September 30, 2009:** Judging completed; five finalists selected
- **March 31, 2011:** Finalist project construction completed; energy monitoring and reporting begins (Monitoring on projects completed before this date will not begin until March 31<sup>st</sup>)
- **March 31, 2014:** Energy monitoring completed; Z-Prize winner announced.



## **The Traveling Exhibition**

A traveling exhibition will be organized in 2010 to present the best entries in key cities around the world, showcasing the designs and innovative technologies behind the winning projects. The traveling exhibition will contain construction materials, designs, images and other materials pertaining to re-skinning. Huge numbers of existing buildings in cities worldwide need to be retrofitted, and the exhibition will facilitate the transmission of new methodologies within this space.

## **Website**

The competition website will act as an integral component, enhancing competition execution and participation. Acting as a repository of competition and re-skinning information as well as a central place where the finalists and winning team will be able to track their carbon footprint for years to come, the website will ensure that the competition has maximum global impact.

## **The Jury**

The Jury has been selected to represent worldwide expertise in the various criteria embodied in the competition brief. Jury members will be announced at the competition launch in May. The entire judging process will be conducted online so as to minimize the carbon footprint of this competition.

## **Jury Members**

### **Thomas Auer**

- Masters in Process Engineering, University of Stuttgart
- Partner and Managing Director of Transsolar GmbH building energy design consultancy
- Visiting lecturer at Yale School of Architecture



### **Andrew Bowerbank**

- Diploma (Hon.) in Industrial Design, Humber College; B Ed, University of Western Ontario
- Executive Director of the World Green Building Council
- EnerQuality Corporation and the Ontario Home Builders Association's "Leader of the Year," 2007

### **George Baird**

- MA (Hon.), Harvard; B Arch (Hon.), University of Toronto
- Dean, Faculty of Architecture, Landscape & Design and Professor of Architecture, University of Toronto
- Partner, Baird Sampson Neuert Architects
- Recipient of the Toronto Arts Foundation's Architecture & Design Award, 1992; the Ontario Association of Architects' da Vinci Medal, 2000; & the Canadian Governor-General's Award for Architecture, 1994

### **Stefan Behnisch**

- BA in Philosophy, Hochschule der Jesuiten, Munich; Architecture Diploma, University of Karlsruhe; BDA; CIMA; Economics, Ludwig Maximilians University
- Principal Partner Behnisch Studio East, Inc. architecture firm
- "Environmental Champion Award" by Interiors & Sources Magazine, USA, 2004
- Commission recipient for the new Allston Science Complex at Harvard University, 2009
- Visiting professor at Yale School of Architecture, 2005 & 2006

### **Judith DiMaio**

- BA in Art, Bennington College; B Arch, Cornell University; Graduate School of Design, Harvard
- Dean of NY School of Architecture & Design
- Awarded the Rome prize in Architecture, 1978



### **Rick Huijbregts**

- Masters (Real Estate Development & Project Management), Delft University; PhD Harvard
- Director of Real Estate Solutions for Emerging Markets, Cisco Canada
- Executive Director of the Center for Design Informatics at Harvard Design School, 2001-2004

### **Edward Mazria**

- B Arch, Pratt Institute
- Author of the 'bible' of solar design, The Passive Solar Energy Book
- Developed and issued the 2030 Challenge, a strategy to dramatically reduce global GHG emissions and fossil-fuel consumption by the year 2030
- Recipient of AIA Design Innovation Award, the American Solar Energy Society's Pioneer Award, & the National Wildlife Federation's National Conservation Achievement Award, 2008

### **William McDonough**

- BA, Dartmouth College; MFA; M Arch, Yale University
- World-renowned Architect, Designer, Author; and Winner of three U.S. presidential awards
- Time magazine 1999 'Hero for the Planet' & 2007 "Hero of the Environment"
- Recipient of the US Presidential Award for Sustainable Development, 1996
- Co-author of "Cradle to Cradle: Remaking the Way We Make Things," 2002

## **International Advisory Committee**

**David Fullbrook**, Green Building Council, New Zealand

**Carlos Grinberg**, Green Building Council, Argentina

**Robin Mellon**, Green Building Council, Australia



## **Competition Committee of Advisors**

The Competition is being spearheaded by world-renowned green leaders and innovators, including:

**Margaret Atwood**, Canadian Writer, Poet, Environmentalist and Activist

**Thomas Auer**, Principal, TranssolarEnergieTechnik GmbH, Stuttgart.

**George Baird**, Dean of the John H. Daniels Faculty of Architecture, Landscape, and Design and Professor of Architecture at the University of Toronto, and partner Baird Sampson Neuert Architects

**Philip Beesley**, MRAIC OAA B.Arch. Dip. Tech. B.F.A., Dean, School of Architecture, University of Waterloo

**Rob Bennett**, President & CEO, Nova Scotia Power

**Shirley Blumberg** OAA, FRAIC, AIA, Founding Partner KPMB,

**Andrew Bowerbank**, Executive Director, World Green Building Council

**Edward Burtynsky**, Canadian Photographer, artist and environmentalist

**Geoff Cape**, Executive Director, Evergreen

**David Daniels**, Principle, Daniels Capital Group

**Judith DiMaio**, AIA, Dean School of Architecture & Design, New York Institute of Technology

**Sara Diamond**, President, Ontario College of Art and Design

**Luigi Ferrara**, Director of the School of Design, George Brown College and Chairman of the Architectural Literacy Forum

**Alan Greenberg**, Director, Minto Urban Communities

**David Hughes**, President of Pathways to Education Canada; Ex President & CEO of Habitat for Humanity Canada

**Rick Huijbregts**, Director of Real Estate Solutions for Emerging Markets, Cisco Canada

**John Kubassek**, Founder and CEO, Engineered Assemblies



**Mary MacDonald**, Senior Advisor- Climate Change, City of Toronto Mayor's Office

**Andrei Marcu**, Advisor, Climate Change and Emissions Trading, Bennett Jones LLP

**Roger Martin**, Dean, Rotman School of Management, University of Toronto

**Ajon Moriyama** Partner, Moriyama & Teshima Architects

**Frank Mruk**, AIA, RIBA, LEED Accredited, Associate Dean School of Architecture & Design, New York Institute of Technology

**David Naylor**, President, University of Toronto

**David Pecaut**, Chair, Toronto City Summit Alliance; Senior Partner, Boston Consulting Group

**Andrew Pride**, Vice-President, Minto Energy Management

**Donald Schmitt**, Principal, Diamond & Schmitt Architects

**Graeme Stewart**, Designer, ERA Architects

**Alastair J. S. Summerlee**, President and Vice Chancellor, University of Guelph

## **Finance Committee**

**Brad Butt**, President, Greater Toronto Apartment Association

**John Harry**, Senior Vice President, Commercial Mortgage Lending, Home Trust

**Brian Kimmel**, Director, Real Estate Finance, First National Financial LP

**Gary Lee**, Vice President, Asset Management, Multi-Residential GWL Realty Advisors Inc.

**Sandy Mandel**, President, Sanford Mandel & Associates Inc.

**Tim Stoate**, Chair, Associate Director, Mandate Related Finance, Toronto Atmospheric Fund



## Established Event Partners



Ontario Centres of  
Excellence

Where Next Happens

Edward Burtynsky

## How You Can Help

The Zerofootprint Skin Renewal Competition is a first of its kind undertaking. There are many ways you can contribute to support this collaborative leadership effort. We seek individuals and organizations to enter their buildings into the competition, to help spread the word of the competition, engage their professional networks of architects, designers and engineers, provide services in kind, and sponsorship.

## Become an Event Sponsor or Partner

For more information on how you can participate or contribute to the Zerofootprint Building Re-Skinning Competition, contact Deborah Kaplan at +1 416.365.7557, ext. 122 or email [skinning@zerofootprint.net](mailto:skinning@zerofootprint.net).



## **Related Documents**

[Let's Make our Buildings as Smart as our Cars](#)

[http://individuals.zerofootprint.net/wp-content/uploads/2009/04/buildings\\_smart\\_as\\_our\\_cars.pdf](http://individuals.zerofootprint.net/wp-content/uploads/2009/04/buildings_smart_as_our_cars.pdf)

[New Skin, New Hope for Old Buildings](#)

[http://individuals.zerofootprint.net/wp-content/uploads/2009/04/zfp\\_new\\_skin\\_new\\_hope.pdf](http://individuals.zerofootprint.net/wp-content/uploads/2009/04/zfp_new_skin_new_hope.pdf)

[Re-Skin Our Cities: An Idea Worth Spreading](#)

<http://individuals.zerofootprint.net/wp-content/uploads/2009/04/reskin-our-citiesnew.pdf>

[Zerofootprint Building Re-Skinning Competition Overview](#)

[http://individuals.zerofootprint.net/wp-content/uploads/2009/04/skinning\\_overview.pdf](http://individuals.zerofootprint.net/wp-content/uploads/2009/04/skinning_overview.pdf)