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## **GUARDIAN INDUSTRIES ANNOUNCES EXTERIOR GLASS CONTRIBUTION TO FRAUNHOFER CSE'S BUILDING TECHNOLOGY SHOWCASE**

*Guardian's involvement in project highlights importance of energy-efficient glass  
in commercial building retrofits*

Auburn Hills, Mich. – March 12, 2012 – Guardian today announced its participation and the contribution of Guardian SunGuard advanced architectural glass to the Fraunhofer Center for Sustainable Energy Systems (CSE) Building Technology Showcase, a first-of-its-kind research and demonstration building for sustainable technologies in Boston's Innovation District. Guardian is one of 35+ partners contributing a combined total of \$2.7 million in advanced building energy technologies and services for the new "living laboratory."

Guardian will supply SunGuard SuperNeutral 68 energy efficient glass. SunGuard SuperNeutral products are very transparent in appearance while still providing very high light to solar gain ratios. Guardian SunGuard SN 68 on a clear float glass substrate provides 68 percent visible light transmission and a solar heat gain coefficient of .38.

"Guardian is excited to be involved in the project. We are pleased Guardian glass will play a role in preserving this historic building and improving its overall energy efficiency," said Chris Dolan, Director, Commercial Glass Marketing. "Our high performance low-E glass, in combination with the other technologies being incorporated in the project, will help provide significant energy savings and set a great example for energy efficiency that can be achieved in a building."

Helping to implement this portion of the Fraunhofer project will be our industry partner, Peerless Products -- a Guardian Select Commercial Window Fabricator.

Fraunhofer CSE is performing a deep energy retrofit and renovation of the historic, 100-year-old building at 5 Channel Center in Boston to transform it into a research and demonstration facility for advanced building energy technologies. CSE researchers will evaluate the reliability and effectiveness of the technologies incorporated into the building, helping technology developers prove out their products with building-integrated and other applied research, and

showcasing these technologies in a state-of-the-art exhibition and educational space open to the public. The building will be Fraunhofer CSE's new headquarters, housing its advanced research labs and staff.

Advancements in glass technology are an important consideration in the decision to retrofit an existing building such as the 5 Channel Center in Boston. The right glass is critical to a project's ability to save energy and reduce costs.

As part of its vision for making the building a center of learning that promotes clean energy workforce development, Fraunhofer CSE also announced its commitment to partnering with numerous Massachusetts and regional institutions and businesses on workforce development initiatives once the new building is completed. Working with these partners and others, CSE will bring in student groups and workers entering the clean energy sector for technology demonstrations and training, seminars, and other events.

"In addition to making the Building Technology Showcase the premier research and demonstration laboratory for clean energy technologies, we are committed to making the building a venue where everyone—from seasoned architects and construction executives to students still deciding their future career paths—can visualize the performance and potential of the technologies incorporated into the building," said Nolan Browne, Managing Director of Fraunhofer CSE. "Our goal is to present the information in innovative ways that engage visitors and create demand for these energy-saving systems and sustainable products in the market."

Fraunhofer CSE invites building energy product and system manufacturers and integrators to join those on the list of current industry partners. Please contact the Center with ideas for additional technologies to incorporate into the Building Technology Showcase.

For more information on the Building Technology Showcase at 5 Channel Center in Boston, visit <http://cse.fraunhofer.org/bts>.

About Guardian Industries Corp.:

Guardian is a diversified global manufacturing company headquartered in Auburn Hills, Michigan, with leading positions in float glass, fabricated glass products, fiberglass insulation and other building materials for commercial, residential and automotive applications. Its automotive trim group, SRG Global Inc., is one of the world's largest suppliers of advanced, high value coatings on plastics. Through its Science & Technology Center, Guardian is at the forefront of innovation including development of high performance glass coatings and other advanced products. Guardian, its subsidiaries and affiliates employ 18,000 people and operate facilities throughout North America, Europe, South America, Asia, Africa and the Middle East. Visit [www.guardian.com](http://www.guardian.com).

About the Fraunhofer Center for Sustainable Energy Systems:

Fraunhofer USA, Inc., headquartered in Plymouth, Michigan is a non-profit research organization, which operates labs in sustainable energy, biotechnology, computer security, manufacturing innovation, laser technology, and industrial coatings. Fraunhofer USA's research centers collaborate with major research universities in the United States, as well as institutes in Germany, to bring innovative technologies to the marketplace.

The Fraunhofer Center for Sustainable Energy Systems was founded in 2008, dedicated to the commercialization of clean energy technologies. CSE engages in collaborative R&D with private companies, government, and academic institutions, performing research that benefits firms, industries, and society. Fraunhofer CSE is headquartered in Massachusetts.

For more information on Fraunhofer CSE, visit <http://cse.fraunhofer.org>.

### **Industry Partners Contributing to the Building Technology Showcase:**

#### **Controls and Building Management:**

Siemens  
Cimetrics  
OutSmart Power Systems

#### **Interior Products and Systems:**

Dorma  
ThyssenKrupp Elevator  
nora systems, Inc  
DuPont  
Curava  
Artaic

#### **Envelope:**

Guardian Industries  
Pythagoras Solar Windows  
Roxul  
Cooley Group  
Dow Corning  
Erie Architectural Products

#### **Solar Energy Systems:**

Schueco USA  
TIGI

#### **HVAC:**

Price  
Baltimore Air Coil Company (BAC)  
Multistack  
Taco, Inc.  
Viega  
Clearwater Systems Corporation  
Watts Water Technologies, Inc.  
Smith's  
Emerson Swan

#### **Lighting and Shading Systems:**

Hunter Douglas  
Osram Sylvania  
Philips  
Entech Solar  
TerraLUX  
ByteLight  
Oree

#### **Audio / Visual and Controls:**

Crestron Electronics, Inc.  
The Sextant Group  
Signature-AV  
Infocomm International

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