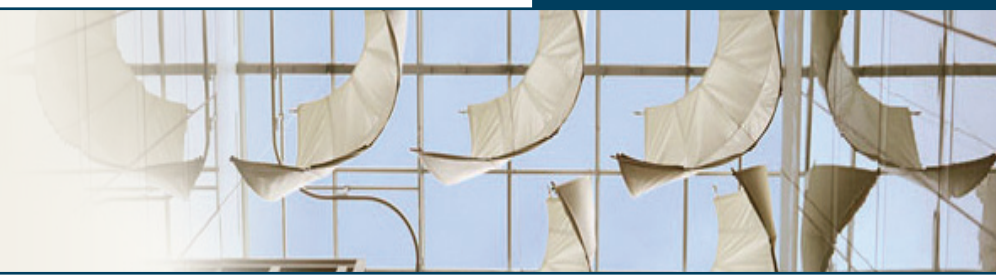
FACTSHEET

advanced buildings

Energy performance solutions from NBI



Advanced Buildings® is a suite of powerful tools and resources

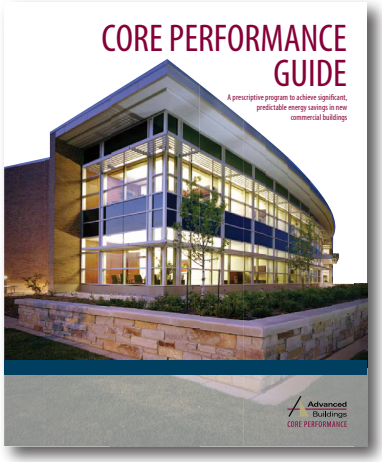
Commercial buildings account for 20 percent of the energy consumed in the United States. According to the U.S. EPA, if commercial and industrial buildings increased their efficiency by just 10 percent, it would save Americans about $20 billion annually and reduce greenhouse gas emissions equal to the emissions from almost 30 million vehicles.

Significant energy savings in commercial buildings are achievable with technologies and design strategies readily available today. Advanced Buildings tools and information help architects and engineers apply these strategies without adding time or cost to projects while demonstrating the benefits of energy efficiency in the built environment.

What technical resources are included in the Advanced Buildings suite?

- **Core Performance®** is the cornerstone of Advanced Buildings and provides a direct, simplified approach to achieve predictable energy savings in small- to medium-sized buildings without the need for modeling. The Core Performance Guide brings together more than 30 criteria defining high performance in building envelope, lighting, HVAC, power systems and controls that when applied under an integrated design process result in buildings that exceed national energy standards such as ASHRAE 90.1-2007 by up to 25 percent.

  To learn more, visit advancedbuildings.net/tools-guidance/core-performance



- Also available is the **Core Performance 2012 IECC Supplement,** which directly aligns the Core Performance Guide with the 2012 International Energy Conservation Code (IECC). For details, please see the Core Performance 2012 IECC Supplement factsheet.

What's behind Advanced Buildings?

Advanced Buildings is a suite of tools and resources that helps design teams create high performance commercial buildings that stand out for their energy efficiency and healthy environments. The suite is managed by New Buildings Institute, a national nonprofit organization working to improve energy efficiency in new commercial buildings. Utilities and public benefits administrators around the country support the development of the Advanced Buildings suite of tools, which they offer to customers as part of local energy efficiency programs.

These contributions are leveraged with foundation and government support to develop new guidance and other resources that will help design teams create high performance buildings.

For example, programs in Massachusetts, Rhode Island, Maine, Vermont and New Brunswick, Canada offer financial incentives and technical assistance for projects that follow Core Performance, Advanced Buildings direct path to high performance in new commercial construction.

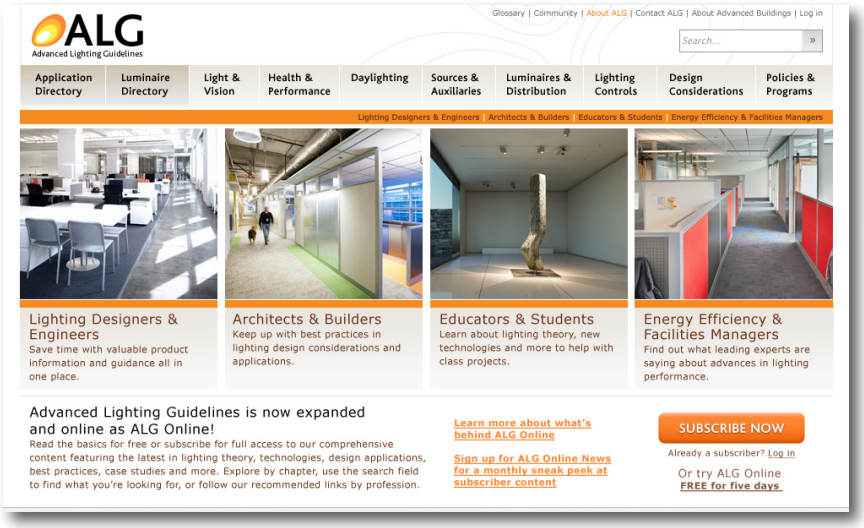
For a complete list of sponsors, visit: advancedbuildings.net

- **The Daylighting Pattern Guide** is a no-cost, interactive tool that helps design teams incorporate proven daylighting strategies into commercial building projects for substantial reductions in lighting power consumption and overall building energy use. The tool can also be used to visually demonstrate to building owners and others the impact successful daylighting solutions can have on a space. It presents 19 prime examples of well-designed daylit buildings including offices, schools, libraries, laboratories, museums, industrial facilities, and recreational facilities. The Guide was developed through a partnership between New Buildings Institute (NBI) and the Integrated Design Labs in Seattle and Boise.

  To learn more, visit patternguide.advancedbuildings.net/

- **The Advanced Lighting Guidelines** is a premier resource for energy-efficient lighting design, technologies and applications representing the latest and best thinking of experts in the field. ALG Online subscribers have access to information about energy-efficient lighting design and technologies including light and vision, daylighting, controls, luminaires and distribution that can take their knowledge to the next level. ALG Online also contains and Application Directory, outlining strategies for specific design applications for retail and office spaces.

  To learn more, visit algonline.org



nbi new buildings institute

For more information about NBI, visit newbuildings.org