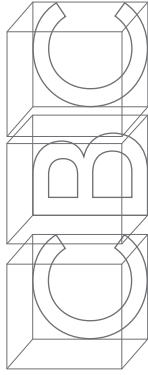


ZERO ENERGY



COMMERCIAL BUILDINGS CONSORTIUM

A public-private consortium of commercial building stakeholders, working with DOE to develop and deliver technology, policies, and practices achieving sector-wide market transformation.

www.zeroenergycbc.org

What is a Net-Zero Energy Building?

A Net-Zero Energy Building is a high-performance building that uses integrated energy-saving technologies and practices to achieve very low energy use and carbon emissions, and produces from renewable sources at least as much energy as it uses in a year.

STEERING COMMITTEE



Need and Opportunity

In the U.S., **buildings account for approximately 40% of total energy consumption and 40% of greenhouse gas emissions.** About half of this is attributable to the commercial sector, and commercial building energy use is growing more rapidly than residential sector energy. Dramatic **improvements in the energy performance of commercial buildings can reduce greenhouse gas (GHG) emissions more quickly and more cost-effectively than many other options** - while helping reduce the impact of rising and increasingly volatile energy prices.

Many stakeholders, including industry and professional associations; voluntary high-performance building organizations; codes and standards organizations; and many leading utilities, state and local agencies, and private building designers, developers, owners and operators, and equipment manufacturers have all recognized the need for more aggressive and effective action.

Transforming energy performance in commercial buildings requires a comprehensive and concerted industry effort, sufficient in scale to influence the more than \$500B per year that the sector spends on new construction, renovation and energy.

Congress and DOE Respond

In 2007, Congress created the **Zero Net Energy Commercial Buildings Initiative (CBI)** as part of the Energy Independence and Security Act (§421, 422 et seq.). Officially launched by the U. S. Department of Energy (DOE) on August 5, 2008, **the goal of the initiative is to “develop and disseminate technologies, practices, and policies for establishment of zero net energy commercial buildings.”**

As the Supporting Consortium for DOE’s CBI, the Zero Energy Commercial Buildings Consortium (CBC) works with DOE to coordinate private and public sector input and involvement. View the full timeline history of the CBC on zeroenergycbc.org.

For questions, please contact Diana Lin, National Association of State Energy Offices (dlin@naseo.org)

How You Can Get Involved

Membership in the Consortium is open to all organizations interested in advancing energy-efficient commercial building technologies, practices and policies. **At present, there are over 200 public and private Consortium members,** including building designers, owners and operators, financiers, manufacturers, state and regional policy makers and program planners, researchers, funding agencies and other stakeholders.

We invite all interested parties to join us in planning strategic directions and future initiatives.

There is no fee to join.

*Join today online at:
zeroenergycbc.org*

The Working Groups

TECHNOLOGIES AND PRACTICES

- Building Envelope
- Mechanical Systems, Plumbing, and Controls
- Lighting/Daylighting and Controls
- Process, IT, and Miscellaneous Equipment
- Combined Heat and Power (CHP), Multi-Building Systems, and Grid Integration

MARKET AND POLICY

- Codes and Standards
- Integrated Design and Building Delivery
- Benchmarking and Performance Assurance
- Voluntary Programs
- Financing and Appraisal
- Owners & Tenants
- Workforce Development

COMMERCIAL BUILDINGS CONSORTIUM

Led by a Steering Committee representing prominent national industry, NGO, and public organizations, **the Consortium was formally launched in 2009** as the outgrowth of a multi-year organizing effort.

The Consortium brings together a broad range of commercial building stakeholders to collaborate with DOE to accelerate technology innovation, process change, and **market transformation to advance zero energy performance in new and existing commercial buildings.**

As a broad-based public/private partnership, the Consortium builds on the membership of the High-Performance Commercial Green Buildings Partnership, convened by ASHRAE in early 2009 in response to an earlier DOE invitation to form an industry advisory group.

Consortium members work with other industry stakeholders and the DOE to plan, coordinate, and assist in implementing a comprehensive strategy to transform energy performance in the commercial sector through:

Innovation - Helping to identify and characterize promising new technologies, innovative market mechanisms, and effective public policies - and recommending priorities for technology R&D, demonstrations, and pilot programs.

Demonstration - Proving that technologies, market mechanisms, and policies work and are well-documented prior to promoting their widespread deployment.

Deployment - Helping to design, initiate, and evaluate deployment programs for proven energy-saving technologies that are promising but underutilized.

Current Activities

In 2010, the CBC will deliver two reports to DOE:

- 1. Next Generation Technologies**
- 2. Analysis of Cost & Non-cost Barriers and Policy Solutions**

These reports are intended to **highlight key barriers and gaps in the sector and make specific and actionable recommendations for the DOE** and other sector actors. Become a member and you can contribute to these reports through the CBC's 12 topical working groups.

In future years, the CBC will continue to collaborate with the DOE to refine these recommendations and coordinate follow-on efforts.