

## Buildings Partnerships

Partnership	Description	Partners	Online Resources
<p><b>Department of Energy: Net-Zero Energy Commercial Building Initiative</b></p>	<p><i>Background:</i> The Department of Energy developed the Net-Zero Energy Commercial Building Initiative (CBI) to advance energy efficiency technology and strategies by working in conjunction with the private sector, federal agencies, national laboratories and non-governmental organizations. The CBI's goal is to achieve marketable net-zero energy commercial buildings by 2025. Three sector-specific alliances developed under the CBI umbrella work with the National Laboratories and different industry sectors to develop best practices and technology. The sector specific alliances are the Retailer Energy Alliance, the Commercial Real Estate Energy Alliance and the Hospital Energy Alliance, and are discussed in greater detail below.</p> <p><i>How the CBI works:</i> The CBI alliances identify opportunities for energy efficiency related to sector-specific processes and equipment, and collect accurate data on energy consumption and energy savings. Companies that work with the alliances have the opportunity to procure high-efficiency building equipment through combined purchases.</p> <p>The CBI also solicits companies to become National Account (NA) members. NA members can receive technical and financial assistance if they commit to working with the Department of Energy to research and develop energy efficiency tools and technologies for retrofitting existing buildings or for new construction.</p>	<p>There are three partnerships under the CBI umbrella: The Retailer Energy Alliance, The Hospital Energy Alliance, and The Commercial Real Estate Energy Alliance. These partnerships are discussed in greater detail below, along with more information about specific partner companies.</p>	<p>Net-Zero Energy Commercial Building Initiative home page: <a href="http://www1.eere.energy.gov/buildings/commercial_initiative/index.html">http://www1.eere.energy.gov/buildings/commercial_initiative/index.html</a></p> <p>Database of Zero Energy Buildings: <a href="http://zeb.buildinggreen.com/">http://zeb.buildinggreen.com/</a></p> <p>Database of High Performance Buildings: <a href="http://eere.buildinggreen.com/index.cfm">http://eere.buildinggreen.com/index.cfm</a></p>
<p><b>Department of Energy: Retailer Energy Alliance</b></p>	<p><i>Background:</i> The Retailer Energy Alliance (REA) is a partnership between the Department of Energy, National Laboratories and the retail industry, and is part of the Net-Zero Commercial Building Initiative. The REA is intended to be an information sharing network with the goal of developing performance benchmarks for retail buildings.</p> <p><i>How the REA works:</i> Members of REA share best practices related to energy efficiency in building design, operation and maintenance. The Department of Energy provides technical tools and resources to improve energy efficiency and convenes stakeholders to establish best practice strategies. The Department of Energy works with member companies to test pilot initiatives such as lighting practices and refrigeration technology.</p> <p>REA has five subcommittees working to identify opportunities for improved energy efficiency related to lighting and electrical equipment,</p>	<p><i>REA Steering Committee:</i> American Society of Heating, Refrigerating and Air Conditioning Engineers, Best Buy, Food Lion, Home Depot, Illuminating Engineering Society of North America, JC Penney, Kohl's, McDonald's, Staples, Target, Wal-Mart and Whole Foods Market.</p>	<p>Retailer Energy Alliance home page: <a href="http://www1.eere.energy.gov/buildings/retailer/">http://www1.eere.energy.gov/buildings/retailer/</a></p> <p>REA Subcommittees: <a href="http://www1.eere.energy.gov/buildings/retailer/subcommittees.html">http://www1.eere.energy.gov/buildings/retailer/subcommittees.html</a></p>

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<p><b>Department of Energy: Hospital Energy Alliance - EnergySmart Hospitals</b></p>	<p><i>Background:</i> The Hospital Energy Alliance is a partnership between DOE and the national healthcare sector focusing on energy efficiency in hospitals, and is part of the Net-Zero Commercial Building Initiative. The EnergySmart Hospitals initiative was launched in June 2008 with the goal of achieving 20% improved energy efficiency in existing hospital buildings, and 30% efficiency improvements in new construction of hospital buildings over existing standards.</p> <p><i>How EnergySmart Hospitals works:</i> DOE has developed design guides on retrofits and new construction of hospitals, and is conducting technology assessments and case studies. DOE is also creating training programs for facilities managers at hospitals, as well as options for small and rural facilities.</p> <p>EnergySmart Hospitals is intended to complement other initiatives like Energy Star for Healthcare and the US Green Building Council's Leadership in Energy and Environmental Design for Healthcare.</p>	<p>The Hospital Energy Alliance includes facilities such as Catholic Healthcare West, Department of Veterans Affairs, Gundersen Lutheran Health System, Hospital Corporation of America, Kaiser Permanente, New York-Presbyterian Hospital, Providence Health &amp; Services, TECO/Texas Medical Center, and the University of Pittsburgh Medical Center.</p> <p>The Alliance also includes associations such as the American Society for Healthcare Engineering, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Global Health and Safety Initiative, and the Illuminating Engineering Society of North America.</p>	<p>Hospital Energy Alliance - EnergySmart Hospitals home page:  <a href="http://www1.eere.energy.gov/buildings/energysmarthospitals/">http://www1.eere.energy.gov/buildings/energysmarthospitals/</a></p> <p>EnergySmart Hospitals: Retrofitting Existing Facilities:  <a href="http://apps1.eere.energy.gov/buildings/publications/pdfs/energysmarthospitals/esh_quickwinfs_0808.pdf">http://apps1.eere.energy.gov/buildings/publications/pdfs/energysmarthospitals/esh_quickwinfs_0808.pdf</a></p> <p>EnergySmart Hospitals: Improving Design and Construction:  <a href="http://apps1.eere.energy.gov/buildings/publications/pdfs/energysmarthospitals/esh_improving-designfs.pdf">http://apps1.eere.energy.gov/buildings/publications/pdfs/energysmarthospitals/esh_improving-designfs.pdf</a></p>
<p><b>Department of Energy: Commercial Real Estate Energy Alliance</b></p>	<p><i>Background:</i> The Commercial Real Estate Energy Alliance (CREEA) was launched in April 2009 and is a partnership between the Department of Energy and members of the commercial real estate industry, and is part of the Net-Zero Commercial Building Initiative. CREEA members represent 20% of the commercial real estate marketplace.</p> <p><i>How the CREEA works:</i> CREEA members share information on their energy efficiency best practices and technology use, and work with the National Laboratories to develop and test new strategies.</p> <p>CREEA has six subcommittees working to identify opportunities for improved energy efficiency related to lighting, HVAC, hospitality, shopping centers, retrofits and strategies for whole buildings.</p>	<p>CREEA members include real estate owners and operators, investors who work on real estate, and relevant service providers and industry groups.</p> <p><i>Steering committee members:</i> Real estate companies - CB Richard Ellis, Cushman &amp; Wakefield Inc., Grubb &amp; Ellis Company, Jones Lang LaSalle, Transwestern, and USAA Real Estate Company.</p>	<p>Commercial Real Estate Energy Alliance home page:  <a href="http://www1.eere.energy.gov/buildings/real_estate/index.html">http://www1.eere.energy.gov/buildings/real_estate/index.html</a></p> <p>CREEA Fact Sheet:  <a href="http://apps1.eere.energy.gov/buildings/publications/pdfs/alliances/creea_fs.pdf">http://apps1.eere.energy.gov/buildings/publications/pdfs/alliances/creea_fs.pdf</a></p> <p>CREEA Subcommittees:  <a href="http://www1.eere.energy.gov">http://www1.eere.energy.gov</a></p>

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		<p><i>Hotels and Resorts</i> - Hilton Hotels Corporation, MGM Mirage, The Walt Disney Company, and Wyndham Hotels and Resorts LLC.</p> <p><i>Real estate and building engineering organizations</i> - American Hotel and Lodging Association, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Illuminating Engineering Society of North America, International Council of Shopping Centers, National Association of Industrial and Office Properties and the Real Estate Roundtable.</p>	<p><a href="http://www.theigbi.org/ov/buildings/real_estate/subcommittees.html">ov/buildings/real_estate/subcommittees.html</a></p>
<p><b>Green Building Initiative</b></p>	<p><i>Background:</i> The Green Building Initiative (GBI) works on increasing the role of recognized green building practices in mainstream building strategies. The GBI advocates a market-driven system for green buildings, and established the Green Globes standard as an assessment tool for rating the environmental impact and energy efficiency of commercial and residential buildings.</p> <p><i>How the GBI works:</i> GBI creates education tools on energy efficiency practices and technologies and uses web seminars, web-based resources and media outreach to deploy information. GBI also runs the Green Globes certification program, which rates buildings based on environmental performance. Under the program, independent auditors award varying levels of Green Globes to buildings based on their relative performance, with one Globe being the lowest certification available and four, the highest.</p>	<p>Members and Supporters include industry associations, engineering and architecture firms, and private sector companies.</p> <p><i>Associations include:</i> American Concrete Institute, American Chemical Council, National Association of Home Builders.</p> <p><i>Engineering/Architecture firms include:</i> Environmental Design + Construction, DesignWorks Architects.</p> <p><i>Companies include:</i> <b>Dow Chemical</b>, Capital One, Sturdy Built Homes, Viking Range Corporation.</p> <p>Complete list - <a href="http://www.theigbi.org/about-gbi/who-we-are/members-and-">http://www.theigbi.org/about-gbi/who-we-are/members-and-</a></p>	<p>Green Building Initiative home page: <a href="http://www.theigbi.org/">http://www.theigbi.org/</a></p> <p>Web Seminars: <a href="http://www.theigbi.org/green-globes/managing-green-performance-of-existing-buildings-web-seminars.asp">http://www.theigbi.org/green-globes/managing-green-performance-of-existing-buildings-web-seminars.asp</a></p> <p>Video: Best Green Building Practices: <a href="http://gbi.buildingmedia.com/">http://gbi.buildingmedia.com/</a></p>

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		<a href="http://supporters.asp">supporters.asp</a>	
<b>US Green Building Council</b>	<p><i>Background:</i> The US Green Building Council (USGBC), founded in 1993, is an industry driven initiative to develop high performance buildings. USGBC developed the Leadership in Energy and Environmental Design (LEED) ratings system to assess and rate highly efficient and sustainable buildings. Today, 35,000 projects participate in the LEED system, comprising over 4.5 billion square feet of construction space.</p> <p><i>How USGBC works:</i> USGBC enables a third-party auditor to assess buildings based on the LEED system. USGBC created the Green Building Certification Institute to train auditors and perform assessments. USGBC also provides a variety of educational programs to professionals across the green buildings industry.</p> <p><i>How LEED works:</i> USGBC developed an assessment system which awards points (out of a total 100, with 10 bonus points) for buildings based on criteria including: site sustainability, energy and water efficiency, sustainability of building materials and site location, indoor environmental quality and design innovation.</p> <p>LEED Certified Buildings are those with more than 40 points, LEED Silver is for buildings that achieve over 50 points, LEED Gold is awarded to buildings with over 60 points, and buildings that receive over 80 points are certified as LEED Platinum.</p>	<p>More than 18,000 member organizations.</p>	<p>US Green Building Council home page:  <a href="http://www.usgbc.org/">http://www.usgbc.org/</a></p> <p>LEED Resources:  <a href="http://www.usgbc.org/DisplayPage.aspx?CMSPageID=75">http://www.usgbc.org/DisplayPage.aspx?CMSPageID=75</a></p> <p>LEED label site:  <a href="http://www.usgbc.org/DisplayPage.aspx?CMSPageID=1991">http://www.usgbc.org/DisplayPage.aspx?CMSPageID=1991</a></p> <p>Green Building Certification Institute:  <a href="http://www.gbci.org/">http://www.gbci.org/</a></p>
<b>Architecture 2030</b>	<p><i>Background:</i> Architecture 2030 is an independent organization founded in 2002 with the goal of providing climate change solutions in the building sector. Architecture 2030 focuses on strategies for reducing greenhouse gas emissions in building and developments planning, design, and construction.</p> <p><i>How Architecture 2030 works:</i> Architecture 2030 launched Challenge 2030 as a partnership that includes all sectors related to building design and construction. Challenge 2030 aims to achieve carbon-neutral buildings by 2030 – buildings without operational emissions of greenhouse gas emissions from fossil fuels.</p> <p>Architecture 2030 established the following specific targets for Challenge 2030 as fossil fuel reduction standards for new buildings and major</p>	<p>The Architecture 2030 members include:  The American Institute of Architects, US Green Building Council, Rocky Mountain Institute, International Council for Local Environmental Initiatives, World Business Council for Sustainable Development, American Society of Heating, Refrigeration and Air-Conditioning Engineers, Society of Building Science Educators, American Solar Energy Society and the American Society of Interior Designers</p>	<p>Architecture 2030 home page:  <a href="http://www.architecture2030.org/2030_challenge/index.html">http://www.architecture2030.org/2030_challenge/index.html</a></p>

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	<p>renovations:</p> <ul style="list-style-type: none"><li>- 60% in 2010</li><li>- 70% in 2015</li><li>- 80% in 2020</li><li>- 90% in 2025</li><li>- Carbon-neutral in 2030</li></ul> <p>Challenge 2030 calls for new construction to exceed existing energy performance standards by 50% and for renovation of existing construction to meet those standards. Challenge 2030 advocates a combination of strategies including green design, cogeneration, and renewable energy.</p>	<p>Complete list - <a href="http://www.architecture2030.org/2030_challenge/2030bus_adoptions.php">http://www.architecture2030.org/2030_challenge/2030bus_adoptions.php</a></p>	