

# Rating Systems Help Achieve Sustainability Goals

Many companies and agencies are using green rating systems as a framework to help meet their sustainability goals, even for projects that do not pursue formal certification. Framework guidelines and metrics can help define sustainability for an organization or project, as well as connect issues and solutions within the context of sustainability. These systems offer helpful tools for project assessment, planning, design, construction and operations & maintenance, which enhance collaboration and drive progress toward sustainability goals.

There are many rating systems around the world—some apply broadly to buildings or infrastructure; some apply more specifically to highways or healthcare. Rating systems have many similarities, but details vary. It is important to look at each thoroughly to determine which system will provide the greatest benefit to your project.

Benefits to using sustainability rating systems include:

- Enhancing the design process
- Providing economic benefits
- Reducing risk
- Adding a competitive advantage
- Increasing accountability
- Improving quality of life
- Offering recognition

This overview illustrates some of the predominant rating systems around the world, which HDR is asked about most frequently. It does not include all rating systems or all countries that use them.

## Global Coverage of Sustainability Ratings

	BUILDINGS	INFRASTRUCTURE	COMMUNITY
Systems in bold are detailed on the following pages.	Office, healthcare, educational, commercial, retail, science & technology	Roads, bridges, pipelines, railways, airports, dams, levees, landfills, water treatment systems	New neighborhood development, urban revitalization projects
<b>Africa</b>	Green Africa Building Standards, <b>EDGE, LEED</b>		
South Africa	Green Star SA, <b>EDGE, LEED</b>		
<b>Asia</b>	<b>EDGE, LEED</b>		
China	China 3 Star, GBAS, <b>EDGE, LEED, WELL</b>		
Hong Kong	Beam	HK BEAM Plus-Infrastructure, <b>CEEQUAL International</b>	HK BEAM - District Tool
India	<b>EDGE, LEED India, GRIHA, WELL</b>		IGBC Green Townships, GRIHA
Japan	CASBEE, <b>WELL</b>		CASBEE
Singapore	BCA Green Mark, <b>WELL</b>	BCA Green Mark	
<b>Australia/New Zealand</b>	<b>Green Star, NABERS, WELL</b>	Infrastructure Sustainability (IS), <b>Greenroads</b>	Green Star Communities
<b>Europe</b>	<b>BREEAM, LEED, Living Building Challenge, WELL</b>	<b>CEEQUAL</b>	BREEAM for Communities
France	HQE, <b>Living Building Challenge, WELL</b>	<b>CEEQUAL International</b>	BREEAM for Communities
Germany	DGNB, <b>WELL</b>	<b>CEEQUAL International</b>	BREEAM for Communities, DGNB
United Kingdom	<b>BREEAM, Living Building Challenge, WELL</b>	<b>CEEQUAL</b>	BREEAM for Communities
<b>North America</b>	<b>LEED, Living Building Challenge</b>	<b>Envision</b>	
Canada	<b>BREEAM, BOMA BEST, Green Globes, LEED, Living Building Challenge, WELL</b>	<b>Envision, Greenroads</b>	<b>LEED ND</b>
United States	<b>BOMA 360 Performance Program, ENERGY STAR, Fitwel, Green Globes, LEED, Living Building Challenge, TRUE, WELL</b>	<b>Envision, INVEST, Greenroads</b>	<b>LEED ND, SITES, STAR Communities</b>
<b>South America</b>	<b>EDGE, LEED, Living Building Challenge, WELL</b>		
<b>Middle East</b>	<b>EDGE, LEED</b>	<b>CEEQUAL International, Envision</b>	
Abu Dhabi	<b>Estidama - Pearl Building Rating System</b>	<b>CEEQUAL International</b>	Estidama - Community Rating System
United Arab Emirates	<b>LEED, Green Key, WELL</b>	<b>CEEQUAL International</b>	

# Sustainable Rating Systems for Buildings and Structures

## High-Level Comparison



*This overview illustrates some of the predominant rating systems around the world, which HDR is asked about most frequently. It does not include all rating systems or all countries that use them.*

	BOMA 360 PERFORMANCE PROGRAM	BREEAM (v2)	EDGE	ENERGY STAR	ESTIDAMA PEARL
<b>Description</b>	Operational best practices in the commercial real estate industry.	Sustainability assessment method for master planning projects, infrastructure and buildings.	Certification system focused on making buildings in emerging markets more resource-efficient.  Excellence in Design for Greater Efficiencies	A certification program for buildings and plants that meet strict energy performance standards.	A regionally relevant rating system driving sustainable development that is economically, environmentally, culturally and socially relevant and to align with government initiatives.
<b>Managing body</b>	BOMA International <a href="http://boma.org">boma.org</a>   <a href="http://BOMA 360 Performance Program website">BOMA 360 Performance Program website</a>	Building Research Establishment (BRE) <a href="http://bre.co.uk">bre.co.uk</a>   <a href="http://BREEAM website">BREEAM website</a>	Green Business Certification, Inc (GBCI) World Bank Group; International Finance Corporation <a href="http://gbc.org">gbc.org</a>   <a href="http://EDGE website">EDGE website</a>	Joint program of the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE) <a href="http://energystar.gov">energystar.gov</a>	Abu Dhabi Urban Planning Council <a href="http://upc.gov.ae/?lang=en-US">upc.gov.ae/?lang=en-US</a>
<b>Established</b>	2009	1990	2013	1992	2010
<b>Geography</b>	International	International	International (not North America or Europe)	United States	United Arab Emirates Specifically tailored to the hot climate and arid environment of Abu Dhabi
<b>Intended for</b>	Existing buildings - occupied commercial office and industrial buildings	New buildings, existing buildings, renovations and fit-outs [Communities - BREEAM's Communities Technical Standard; Infrastructure - working to combine CEEQUAL and BREEAM New Construction Infrastructure pilot into a new infrastructure standard]	New buildings, existing buildings, renovations	Existing buildings - commercial buildings and industrial plants (in sectors where EPA has published an EPI)  New commercial construction	New buildings, villas, temporary villas and buildings [Communities - Pearl Communities]
<b>Applicable Project Phase(s)</b>	Operations and maintenance  Mandatory Requirements: <ul style="list-style-type: none"> <li>Standard Operating Procedures (SOP) Manual</li> <li>Preventive Maintenance Program</li> <li>Building benchmarked through EPA's ENERGY STAR® Portfolio Manager and data shared with BOMA International</li> </ul>	Planning, design and construction: BREEAM's New Construction and Refurbishment and Fit-out Technical Standards  Operations and maintenance: BREEAM's In-Use Technical Standard	Design: Serves as an asset rating system that attests to the building's projected resource efficiency based on its physical characteristics, not its operational performance	Design: Designed to Earn the ENERGY STAR (new commercial construction)  Operations and maintenance: commercial buildings and industrial plants	Design and construction: Pearl Building, Pearl Villa and Temporary 1 Pearl rating systems
<b>Categories/Focus Areas</b>	<ul style="list-style-type: none"> <li>Building Operations and Management</li> <li>Life Safety/Security/Risk Management</li> <li>Training/Education</li> <li>Energy</li> <li>Environmental/Sustainability</li> <li>Tenant Relations/Community Involvement</li> </ul>	<ul style="list-style-type: none"> <li>Management</li> <li>Health &amp; Well Being</li> <li>Energy</li> <li>Transport</li> <li>Materials</li> <li>Waste</li> <li>Water</li> <li>Land Use</li> <li>Pollution</li> <li>Innovation</li> </ul>	<ul style="list-style-type: none"> <li>Energy</li> <li>Water</li> <li>Materials</li> </ul>	<ul style="list-style-type: none"> <li>Energy use</li> <li>Water use</li> </ul>	<ul style="list-style-type: none"> <li>Integrated Development</li> <li>Natural Systems</li> <li>Livable Buildings</li> <li>Precious Water</li> <li>Resourceful Energy</li> <li>Stewarding Materials</li> <li>Innovating Practice</li> </ul>
<b>Registration Cost</b>	\$50 application fee	Varies based on scheme and if in the UK or international (New building in UK around \$200 + tax)	\$300	No cost	Varies
<b>Certification Cost</b>	Varies based on building square footage and BOMA membership	Varies; negotiated with Assessor	Based on square footage or project type, depending on certification provider is selected	No cost	Varies
<b>Rating Scale</b>	BOMA 360 Designation	Pass, Good, Very Good, Excellent, Outstanding	"EDGE certified" Certificate confirming predicted performance	ENERGY STAR certification	1 to 5 Pearls
<b>Our Project Experience</b>		<a href="#">The Roslin Institute Building</a> at the University of Edinburgh, Midlothian, Scotland, UK <a href="#">BBSRC National Virology Centre: The Plowright Building</a> , Surrey, England, UK			<a href="#">Cleveland Clinic Abu Dhabi Hospital</a> , Abu Dhabi, United Arab Emirates

# Sustainable Rating Systems for Buildings and Structures

## High-Level Comparison



*This overview illustrates some of the predominant rating systems around the world, which HDR is asked about most frequently. It does not include all rating systems or all countries that use them.*

	<b>FITWEL (BETA)</b>	<b>GREEN GLOBES (v1.45)</b>	<b>GREEN STAR (v1.2)</b>	<b>LEED® BD+C (v4*)</b>	<b>LIVING BUILDING CHALLENGE (v3.1)</b>
<b>Description</b>	Rating system that assesses building and workplace features against a baseline of criteria that create a health-promoting environment. <b>Facility Innovations Toward Wellness Environment Leadership</b>	Online assessment protocol, rating system, and guidance for green building design, operation and management.	Australian certification for design, construction and operation of sustainable buildings, fitouts and communities	Green building certification program and the globally recognized standard for the design, construction and operation of high-performance green buildings and neighborhoods.	A philosophy, certification and advocacy tool for projects to move beyond merely being less bad and to become truly regenerative.
<b>Managing body</b>	Center for Active Design (CfAD) <a href="http://fitwel.org">fitwel.org</a> [Created as a joint initiative led by the US Centers for Disease Control and Prevention (CDC) and the General Services Administration (GSA) in addition to experts in public health and design]	U.S.: Green Building Initiative (GBI) <a href="http://thegbi.org">thegbi.org</a> Canada: BOMA BEST <a href="http://bomacanada.com/">bomacanada.com/</a>	Green Building Council Australia <a href="http://gbca.org.au">gbca.org.au</a>	Green Business Certification, Inc (GBCI) <a href="http://gbci.org">gbci.org</a> US Green Building Council (USGBC) <a href="http://usgbc.org">usgbc.org</a> <a href="http://LEED website">LEED website</a>	International Living Future Institute™ <a href="http://living-future.org/lbc/">living-future.org/lbc/</a>
<b>Established</b>	2015	2000	2003	1998	2006
<b>Geography</b>	United States	United States and Canada	Australia, New Zealand, South Africa	International	International
<b>Intended for</b>	Existing buildings - single- or multi-tenant buildings and commercial interior spaces (Workplaces)	New buildings, existing buildings - commercial, institutional and multi-residential buildings	New buildings, existing buildings, renovations, interior fit-outs [Communities - Green Star - Communities]	New buildings, existing buildings, renovations, interior fit-outs [Neighborhood Development (ND) detailed under Infrastructure Projects]	New buildings, renovations [Communities - Living Community Challenge]
<b>Applicable Project Phase(s)</b>	Operations and maintenance	Design and construction: Green Globes for New Construction (NC) and Sustainable Interiors (SI) tools Operations and maintenance: Green Globes for Existing Buildings (EB) tool	Design and construction: Green Star - Design & As Built and Green Star - Interiors tools Operations and maintenance: Green Star - Performance tool	Design and construction: LEED Building Design and Construction (BD+C) and LEED Interior Design and Construction (ID+C) Operations and maintenance: LEED Building Operations and Maintenance (O&M)	Design and construction Submitted/certified after 12 months of occupancy data are collected
<b>Categories/Credits</b>	<ul style="list-style-type: none"> <li>Impacts Community Health</li> <li>Reduces Morbidity and Absenteeism</li> <li>Social Equality for Vulnerable Populations</li> <li>Increases Physical Activity</li> <li>Instills Feelings of Well-Being</li> <li>Promotes Occupant Safety</li> <li>Provides Healthy Food Options</li> </ul>	<ul style="list-style-type: none"> <li>Project Management</li> <li>Site</li> <li>Energy</li> <li>Water</li> <li>Materials &amp; Resources</li> <li>Emissions and Other Impacts</li> <li>Indoor Environment</li> </ul>	<ul style="list-style-type: none"> <li>Management</li> <li>Indoor Environmental Quality</li> <li>Energy</li> <li>Transport</li> <li>Water</li> <li>Materials</li> <li>Land Use</li> <li>Emissions</li> </ul>	<ul style="list-style-type: none"> <li>Integrative Process</li> <li>Location &amp; Transportation</li> <li>Sustainable Sites</li> <li>Water Efficiency</li> <li>Energy &amp; Atmosphere</li> <li>Materials &amp; Resources</li> <li>Indoor Environmental Quality</li> <li>Innovation</li> <li>Regional Priority</li> </ul>	<ul style="list-style-type: none"> <li>Place</li> <li>Water</li> <li>Energy</li> <li>Health and Happiness</li> <li>Materials</li> <li>Equity</li> <li>Beauty</li> </ul>
<b>Registration Cost</b>	Not available	Varies based on project type and size	Varies based on project size and GBCA membership	\$1,500 (\$1,200 if Silver, Gold and Platinum Level Member)	\$900
<b>Certification Cost</b>	Not available	Based on building square footage	Based on GBCA membership and contract value	Based on building square footage Precertification: \$5,000 (\$4,000 if Silver, Gold and Platinum Level Member)	Based on the typology, gross building area, and type of project
<b>Rating Scale</b>	1 Star, 2 Stars, 3 Stars	1 to 4 Green Globes	4, 5 or 6 Stars	Certified, Silver, Gold, Platinum	Living Building Certified, Petal Certified, Net Zero Energy Certified
<b>Our Project Experience</b>		<a href="#">Walter Cronkite School of Journalism &amp; KAET-TV</a> , Arizona State University, Phoenix, AZ, USA Advanced Technology Research Facility, Federick, MD, USA	<a href="#">Novartis Australia Headquarters</a> , Macquarie Park, New South Wales, Australia <a href="#">825 Ann Street</a> , Brisbane, Queensland, Australia <a href="#">Coca-Cola Place: The Ark</a> , North Sydney, New South Wales, Australia	135+ LEED Certified projects, including: <a href="#">San Bernardino Transit Center</a> , San Bernardino, CA, USA <a href="#">Humber River Hospital</a> , Toronto, Ontario, Canada <a href="#">DuBiotech Nucleotide Lab Complex</a> , Dubai, United Arab Emirates	<a href="#">Jim Pattison Centre of Excellence</a> , Okanagan College, Penticton, British Columbia, Canada

\* LEED v4.1 O+M beta released April 2018

# Sustainable Rating Systems for Buildings and Structures

## High-Level Comparison



*This overview illustrates some of the predominant rating systems around the world, which HDR is asked about most frequently. It does not include all rating systems or all countries that use them.*

	NABERS	PARKSMART (v1.2)	PEER (v2*)	TRUE (v1.0)	WELL BUILDING STANDARD (v1)
<b>Description</b>	A national rating system that measures the environmental performance of Australian buildings, tenancies and homes.	Rating system that defines and recognizes sustainable practices in parking structure management, programming, design and technology.	Third-party certification program and rating process designed to measure and improve sustainable power system performance. <b>Performance Excellence in Electricity Renewal</b>	A zero waste certification program for businesses to assess performance in reducing waste and maximizing resource efficiency.	Performance based standard that measures attributes of buildings that impact occupant health.
<b>Managing body</b>	NABERS National Administrator; NSW Government's Office of Environment and Heritage, overseen by a National Steering Committee <a href="http://nabers.gov.au">nabers.gov.au</a>	Green Business Certification, Inc (GBCI) <a href="http://gbc.org">gbc.org</a>   <a href="http://Parksmart website">Parksmart website</a>	Green Business Certification, Inc (GBCI) <a href="http://gbc.org">gbc.org</a>   <a href="http://PEER website">PEER website</a>	Green Business Certification, Inc (GBCI) <a href="http://gbc.org">gbc.org</a>   <a href="http://TRUE website">TRUE website</a>	International Well Building Institute <a href="http://wellcertified.com">wellcertified.com</a>
<b>Established</b>	1998	2016	2013	2017	2014
<b>Geography</b>	Australia	International	International	International	International
<b>Intended for</b>	Existing buildings - commercial offices, shopping centers, hotels, homes, data centers	New and existing structured parking facilities	New and existing power systems, categorized as: City, Campus, Supply	Existing buildings	New buildings, existing buildings, interiors [Communities - see WELL Communities under Communities]
<b>Applicable Project Phase(s)</b>	Operations and maintenance	Design and construction Operations and maintenance	Design and construction Operations and maintenance	Operations and maintenance	Design and construction: WELL Project Types - New and Existing Buildings, New and Existing Interiors, Core and Shell
<b>Categories/Credits</b>	<ul style="list-style-type: none"> <li>Energy - all project types</li> <li>Water - all project types, except data centers</li> <li>Waste - offices only</li> <li>Indoor Environment - offices only</li> </ul>	<ul style="list-style-type: none"> <li>Garage Management</li> <li>Garage Programs</li> <li>Technology and Structure Design</li> <li>Innovation</li> </ul>	<ul style="list-style-type: none"> <li>Reliability and Resiliency</li> <li>Energy Efficiency and Environment</li> <li>Operations, Management and Safety</li> <li>Grid Services</li> <li>Regional Priority</li> <li>Innovation and Exemplary Performance</li> </ul>	<ul style="list-style-type: none"> <li>Redesign</li> <li>Reduce</li> <li>Reuse</li> <li>Compost</li> <li>Recycle</li> <li>Zero waste analysis</li> <li>Zero waste reporting</li> <li>Zero waste purchasing</li> <li>Leadership</li> <li>Training</li> <li>Diversion</li> <li>Upstream management</li> <li>Hazardous waste prevention</li> <li>Closed loop system</li> <li>Innovation</li> </ul>	<ul style="list-style-type: none"> <li>Air</li> <li>Water</li> <li>Nourishment</li> <li>Light</li> <li>Fitness</li> <li>Comfort</li> <li>Mind</li> </ul>
<b>Registration Cost</b>	Not applicable (Free online self-assessment calculator available)	\$250	PEER Participation fees for city and supply projects calculated by the length of term. Fees for campus projects calculated by length of term and per MW per term, with set minimums in place.	\$1,500 (\$1,200 for USGBC members)	Range from \$1,500 to \$10,000 depending on project type and size
<b>Certification Cost</b>	Based on type of rating, building size, and difficulty gathering appropriate data. Accredited rating updated annually	\$6,500	Included in PEER Participation fee	Based on facility square footage	Based on project type and size Optional precertification: \$15,000 Recertification fees based on project size
<b>Rating Scale</b>	Indoor Environment, Energy and Water - 1 star to 6 stars Waste - 1 star to 5 stars	Existing garages - Pioneer New garages - Bronze, Silver and Gold	Certified, Silver, Gold, Platinum	Certified, Silver, Gold, Platinum	Silver, Gold, Platinum
<b>Our Project Experience</b>	<a href="#">Novartis Australia Headquarters</a> , Macquarie Park, New South Wales, Australia;				Two WELL projects in design

\* PEER v2 released March 2018

# Sustainable Rating Systems for Infrastructure Projects

## High-Level Comparison



*This overview illustrates some of the predominant rating systems around the world, which HDR is asked about most frequently. It does not include all rating systems or all countries that use them.*

	CEEQUAL (v5.2)	ENVISION® (v3*)	GREENRAILS (Pilot)	GREENROADS (v2)	INVEST (v1.2)
<b>Description</b>	Evidence-based sustainability assessment, rating and awards scheme for civil engineering, infrastructure, landscaping and works in public spaces.  CEEQUAL in UK/Ireland; CEEQUAL International outside UK/Ireland	Sustainable best practices and rating system for planning, designing, building and maintaining civil infrastructure. Provides a holistic framework for evaluating and rating the community, environmental and economic benefits of all types and sizes of infrastructure projects.	Sustainability rating system for railway design and construction projects.	Sustainability rating system used to measure and manage sustainability on transportation projects; challenges Project Teams to go above and beyond minimum environmental, social, and economic performance measures.	A web-based self-evaluation tool comprised of voluntary sustainability best practices, called criteria, which cover the full lifecycle of transportation services.  <b>Infrastructure Voluntary Evaluation Sustainability Tool</b>
<b>Managing body</b>	Building Research Establishment (BRE) <a href="http://bre.co.uk">bre.co.uk</a>   <a href="http://CEEQUAL.org">CEEQUAL website</a>	Institute for Sustainable Infrastructure (ISI) <a href="http://sustainableinfrastructure.org">sustainableinfrastructure.org</a>	Greenroads Foundation <a href="http://greenroads.org">greenroads.org</a>	Greenroads Foundation <a href="http://greenroads.org">greenroads.org</a>	Federal Highway Administration (FHWA) <a href="http://sustainablehighways.org">sustainablehighways.org</a>
<b>Established</b>	2003	2012	Pilot phase announced in 2014; currently only by request	2011	2012
<b>Geography</b>	International	International	International	International	United States
<b>Intended for</b>	New and existing civil engineering, infrastructure, landscaping and public realm projects	New and existing infrastructure, new and existing buildings that are primarily process focused	New and existing railway infrastructure	New and existing transportation infrastructure - most commonly street and highway improvements, stormwater utility improvements in street or right-of-way, bridge replacements, transit-related improvements and stops	New highway and transportation projects
<b>Applicable Project Phase(s)</b>	Design (principal designer(s) only) Construction (for principal contractor(s) only) Also client and team awards	Planning and design Construction: Rating system in development Operations and maintenance: Rating system in development	Planning, design and construction Certification based on review of project documents in as-built conditions	Planning, design and construction Certification based on review of project documents in as-built conditions	Planning Project development Operations and maintenance
<b>Categories/Credits</b>	<ul style="list-style-type: none"> <li>Project/Contract Strategy (optional)</li> <li>Project/Contract Management</li> <li>People &amp; Communities</li> <li>Land Use (above &amp; below water) &amp; Landscape</li> <li>The Historic Environment</li> <li>Ecology &amp; Biodiversity</li> <li>Water Environment (Fresh &amp; Marine)</li> <li>Physical Resources Use &amp; Management</li> <li>Transport</li> </ul>	<ul style="list-style-type: none"> <li>Quality of Life</li> <li>Leadership</li> <li>Resource Allocation</li> <li>Natural World</li> <li>Climate and Resilience</li> </ul>	<ul style="list-style-type: none"> <li>Environment &amp; Water</li> <li>Construction Activities</li> <li>Materials &amp; Design</li> <li>Utilities &amp; Controls</li> <li>Access &amp; Livability</li> </ul> <p>[Aligns with Greenroads, with opportunity to add categories]</p>	<ul style="list-style-type: none"> <li>Environment &amp; Water</li> <li>Construction Activities</li> <li>Materials &amp; Design</li> <li>Utilities &amp; Controls</li> <li>Access &amp; Livability</li> </ul>	Criteria based on phase/module: <ul style="list-style-type: none"> <li>System Planning—2 modules, each with 16 criteria + 1 bonus criteria in each module, including integrated planning, air quality and infrastructure resiliency</li> <li>Project Development—33 criteria, including economic analysis, site vegetation, freight mobility</li> <li>Operations and maintenance—14 criteria, including reuse &amp; recycle, safety management and traffic control</li> </ul>
<b>Registration Cost</b>	Not applicable	\$2,000	\$495	Depends on status and years to NTP; expedite fees will also apply for projects that register later than NTP; screening application is free	\$0 (Self-assessment)
<b>Certification/Verification Cost</b>	Based on project cost and award type. Additional verifier travel expenses based on project location.	Based on project cost	Rating fee based on construction start date	Based on project cost Pilot project fees; <\$15M - \$2,500; \$15M+ - \$5,000	\$0 (Self-assessment)
<b>Rating Scale</b>	Pass, Good, Very Good, Excellent	Bronze, Silver, Gold, Platinum	Not published - may align with Greenroads	Certified, Silver, Gold, Evergreen	Bronze, Silver, Gold, Platinum [in each module]
<b>Our Project Experience</b>		<a href="#">Holland Energy Park</a> , Holland, MI, USA <a href="#">Kansas City Streetcar</a> , Kansas City, MO, USA <a href="#">Historic Fourth Ward Park</a> , Atlanta, GA; USA <a href="#">I-4 Ultimate Highway Project</a> ; Orlando, FL, USA		<a href="#">West Dowling Road Extension Phase II</a> , Anchorage, AK, USA	Sustainable Highways Self-Evaluation Project, Minnesota Department of Transportation, MN, USA I-20/26/126 Corridor Improvements - Carolina Crossroads, South Carolina DOT, Columbia, SC, USA

\* Envision v3 released April 2018

# Sustainable Rating Systems for Communities

## High-Level Comparison



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	ECODISTRICTS (v1.2)	LEED ND (v4)	LIVING COMMUNITY CHALLENGE (v1.2)	SITES (v2)	STAR COMMUNITIES (v2)	WELL COMMUNITY (Pilot)
<b>Description</b>	A rigorous sustainable urban development framework for achieving people-centered, economically vibrant, planet-loving, neighborhood- and district-scale sustainability. Priorities – Equity, Resilience and Climate Protection.	Sustainability rating tool designed to inspire and help create better, more sustainable, well-connected neighborhoods. Also see LEED under Sustainable Rating Systems for Buildings and Structures.	A philosophy, certification and advocacy tool for projects to move beyond merely being less bad and to become truly regenerative.	A comprehensive rating system designed to distinguish sustainable landscapes, measure their performance and elevate their value.	Framework and certification program for local sustainability; provides a transparent and data-driven mechanism to improve local communities by measuring progress across social, economic and environmental performance areas.	Performance standard that expands work of the WELL Building Standard beyond a single building and into entire districts.
<b>Managing body</b>	EcoDistricts <a href="http://ecodistricts.org/">ecodistricts.org/</a>	Green Business Certification, Inc (GBCI) <a href="http://gbci.org">gbci.org</a> US Green Building Council (USGBC) <a href="http://usgbc.org">usgbc.org</a>	International Living Future Institute™ <a href="http://living-future.org/lbc/">living-future.org/lbc/</a>	Green Business Certification, Inc (GBCI) <a href="http://gbci.org">gbci.org</a> <a href="#">SITES website</a> [Developed by the American Society of Landscape Architects (ASLA), the Lady Bird Johnson Wildflower Center at The University of Texas at Austin and the United States Botanic Garden]	STAR Communities <a href="http://starcommunities.org">starcommunities.org</a> [Initiated and supported by founding partners ICLEI-Local Governments for Sustainability USA, the U.S. Green Building Council, National League of Cities and the Center for American Progress.]	International Well Building Institute <a href="http://wellcertified.com">wellcertified.com</a>
<b>Established</b>	2013	1998	2014	2006	2010	2014
<b>Geography</b>	International	International	International	International	United States	International
<b>Intended for</b>	Neighborhoods and districts, both new and existing, including residential neighborhoods, business districts, institutional campuses, mixed-use projects, and redevelopment areas	New land development projects or redevelopment projects containing residential uses, nonresidential uses, or a mix	Communities	Development projects located on sites with or without buildings, including new construction projects and existing sites with major renovations; minimum size of 2,000 SF	Communities (Local government application)	Communities
<b>Applicable Project Phase(s)</b>	Planning, design, construction, operations and maintenance EcoDistricts 3 Implementation Phases: Formation, Roadmap and Performance	Planning and design Built Project	Planning, design and construction Submitted/certified after 12 months of proven performance with 85% of the development occupied as intended	Planning Design Construction and maintenance	Local governments can use STAR to benchmark and track local performance through certification or annual reporting on key sustainability indicators; anyone can use STAR as a handbook and resource for community-wide sustainability.	Design and construction
<b>Categories/Credits</b>	<ul style="list-style-type: none"> <li>Place</li> <li>Prosperity</li> <li>Health and Wellbeing</li> <li>Connectivity</li> <li>Living Infrastructure</li> <li>Resource Regeneration</li> </ul>	<ul style="list-style-type: none"> <li>Smart Location and Linkage (SLL)</li> <li>Neighborhood Pattern and Design (NPD)</li> <li>Green Infrastructure and Buildings (GIB)</li> <li>Innovation</li> <li>Regional Priority</li> </ul>	<ul style="list-style-type: none"> <li>Place</li> <li>Water</li> <li>Energy</li> <li>Health and Happiness</li> <li>Materials</li> <li>Equity</li> <li>Beauty</li> </ul>	<ul style="list-style-type: none"> <li>Site Context</li> <li>Pre-Design Assessment and Planning</li> <li>Site Design—Water, Soil and Vegetation, Materials Selection, Human Health &amp; Well-Being</li> <li>Construction</li> <li>Operations and Maintenance</li> <li>Education and Performance Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>Built Environment</li> <li>Climate &amp; Energy</li> <li>Economy &amp; Jobs</li> <li>Education, Arts &amp; Community</li> <li>Equity &amp; Empowerment</li> <li>Health &amp; Safety</li> <li>Natural Systems</li> <li>Innovation &amp; Process</li> </ul>	<ul style="list-style-type: none"> <li>Air</li> <li>Water</li> <li>Nourishment</li> <li>Light</li> <li>Fitness</li> <li>Temperature</li> <li>Sound</li> <li>Materials</li> <li>Mind</li> <li>Community</li> <li>Innovation</li> </ul>
<b>Registration Cost</b>	\$900	\$1,500 SLL and NPD Prerequisite Review: \$5,000	\$1,200	\$2,500 (USGBC and ASLA Members) \$3,000 (Non-Members)	\$1,000 for full-access annual subscription	Varies based on project type and size
<b>Certification/Verification Cost</b>	Certification - \$9,500 Progress Report Endorsement - \$1,200 (Every 2 years following achievement of Certification)	Based on acres - Initial Stage Review and Subsequent Stage Review	Multiple certification fees, based on community size Optional review at additional cost	\$6,500 (USGBC and ASLA Members) \$9,000 (Non-Members)	\$3,000 Rating lasts four years. Communities are expected to measure and report progress through recertification.	Based on project type and size Optional precertification: \$15,000 Recertification fees based on project size
<b>Rating Scale</b>	EcoDistricts Certified	Certified, Silver, Gold, Platinum	Living Community Certified (interim Emerging Living Community designation), Petal Certified, Net Zero Community Certified	v2: Certified, Silver, Gold, Platinum Pilot Projects: 1 to 4 Stars	3-STAR Community, 4-STAR Community and 5-STAR Community	Silver, Gold, Platinum
<b>Our Project Experience</b>		City of Tucson and Gadsden Company Public-Private Partnership, <a href="#">Tucson Modern Streetcar Program Management</a> , Tucson, AZ, USA		Hunts Point Landing, New York, NY, USA (pilot) <a href="#">Historic Fourth Ward Park</a> , Atlanta, GA; USA (pilot)	[City-level certification]	

# Sustainable Rating Systems High-Level Comparison



	GEOGRAPHY	INTENDED FOR							PROJECT PHASE			
		New Buildings	Existing Buildings	Renovations	Interiors (Fit-Outs)	New Infrastructure	Existing Infrastructure	Communities/ Neighborhoods	Planning	Design	Construction	Operations & Maintenance
<b>BOMA 360 Performance Program</b>	International											
<b>BREEAM</b>	International											
<b>EDGE</b>	International (not N. America or Europe)											
<b>ENERGY STAR</b>	United States											
<b>Estidama Pearl</b>	United Arab Emirates											
<b>Fitwel</b>	United States											
<b>Green Globes</b>	United States & Canada											
<b>Green Star</b>	Australia, New Zealand, South Africa											
<b>LEED (BD+C, ID+C, O&amp;M, ND)</b>	International							LEED ND				
<b>Living Building Challenge</b>	International							Community Challenge				
<b>NABERS</b>	Australia											
<b>Parksmart</b>	International	Parking Facilities	Parking Facilities									
<b>PEER</b>	International	Power Systems	Power Systems									
<b>TRUE</b>	International											
<b>WELL</b>	International							WELL Community				
<b>CEEQUAL</b>	International											
<b>Envision</b>	International										In Development	In Development
<b>Greenroads</b>	International					Transportation	Transportation					
<b>Greenrails</b>	International					Railway	Railway					
<b>INVEST</b>	United States					Transportation	Transportation					
<b>EcoDistricts</b>	International							New & existing				
<b>SITES</b>	International											
<b>Star Communities</b>	United States							Local government application			Implementation	