

Regenerative Design: Community Scale Strategies

<p>Living Community Challenge (LCC) International Living Future Institute 2014</p> <p>The Living Community Challenge has two main rules: 1. First, that all Imperatives are mandatory 2. Certification can only be given to completed/ real performance (not to modeled or anticipated work)</p> <p>The Seven Petals* & Twenty Imperatives*</p> <ol style="list-style-type: none"> Place <ul style="list-style-type: none"> -Limits to growth -Urban agriculture -Habitat exchange -Human-powered living Water <ul style="list-style-type: none"> -Net Positive water Energy <ul style="list-style-type: none"> -Net Positive energy Health & Happiness <ul style="list-style-type: none"> -Civilized environment -Healthy neighborhood design -Biophilic environment -Resilient community connections Materials <ul style="list-style-type: none"> -Living materials plan -Embodied carbon footprint -Net Positive waste Equity <ul style="list-style-type: none"> -Human scale & humane places -Universal access to nature & place -Access to community services -Equitable investment -Just organizations Beauty <ul style="list-style-type: none"> -Beauty & spirit -Inspiration & education <p>Criteria Needed to Register for the LCC</p> <ol style="list-style-type: none"> Diversity of Uses Multiple Buildings At Least One Multi-Modal Street Shared Infrastructure (optional) 	<p>21st Century Development AIA Minnesota / Center for Sustainable Building Research</p> <p>Twenty-First Century Development aims to benefit all living systems through the co-evolution and regeneration of both humans and natural systems.</p> <ol style="list-style-type: none"> Humans: <ul style="list-style-type: none"> -Improve health, provide healthy living & working environments, & create a productive, equitable society Environment: <ul style="list-style-type: none"> -Regenerate all resources used, & restore/ renew local and regional ecosystems <p>Performance Areas</p> <p>The 7 performance areas and their subcategories are based off of the LCC Petals and Imperatives</p> <p>Within each imperative, five degrees of performance are described as a way to provide a template for evaluating and given project</p> <p>The Five Degrees of Performance Levels (Applied to each subcategory/ imperative)</p> <ol style="list-style-type: none"> Standard Good Better Living Community Principles Regenerative 	<p>BREEAM Building Research Establishment Ltd</p> <p>BREEAM standards aim to encourage social and economic benefits while mitigating environmental impacts.</p> <p>Three Steps in Assessing Sustainability:</p> <ol style="list-style-type: none"> Suitable site selection/ establishing principles Determining development layout Designing the details <p>Five Assessment Categories:</p> <ol style="list-style-type: none"> Social and economic wellbeing <ul style="list-style-type: none"> -Step 1: Flood risk, noise pollution, demographic needs, & economic impact -Step 2: Delivery of services, microclimate, adapting to climate change, green infrastructure, local parking, flood risk management, housing provision, & public realm -Step 3: Local vernacular, inclusive design, light pollution, & training/ skills Resources and energy <ul style="list-style-type: none"> -Step 1: Energy strategy, existing buildings/ infrastructure, & water strategy -Step 2: N/A -Step 3: Sustainable buildings, low impact materials, resource efficiency, transport carbon emissions Land use and ecology <ul style="list-style-type: none"> -Step 1: Ecology strategy & land use -Step 2: Water pollution, ecological value enhancement, & landscape -Step 3: Rainwater harvesting Transport and movement <ul style="list-style-type: none"> -Transportation assessment -Cycling network, public transport access, & safe/ appealing streets -Cycling & public transport facilities Governance <ul style="list-style-type: none"> -Consultation plan -Design & consultation/ engagement -Community facility management 	<p>Regenesis</p> <p>Aiming beyond the goal to do less harm, Regenesis is committed to proving that human activity can be a source of health and regeneration, rather than destruction and degradation.</p> <p>Three Distinct But Complimentary Approaches to Change:</p> <ol style="list-style-type: none"> Living Systems Thinking Permaculture Developmental Change Processes <p>Designing for Evolution Guidelines:</p> <ol style="list-style-type: none"> Maintain the potential for evolution Align with the wisdom of nature Define projects by their roles Grow value-generating capacity <p>Understanding Place to Tailor Sustainable Design Strategies:</p> <ol style="list-style-type: none"> How big is it here? <ul style="list-style-type: none"> -Identifying the appropriate scale How does here work? <ul style="list-style-type: none"> -Patterns of geophysical/ biological/ human Organizing What kind of here is this? <ul style="list-style-type: none"> -How do local people describe/ express/ love their place? 	<p>Living Environments in Natural, Social, and Economic Systems (LENSES) Center for Living Environments and Regeneration (CLEAR)</p> <p>“LENSES provides a structured process for seeing and realizing the full potential of a project or program. It is not a checklist or a rating system, but rather a facilitated step-by-step process for regenerative development. Simply put, regeneration is about increasing vitality, viability, and capacity to evolve.”</p> <p>Five Principles of Regenerative Development:</p> <ol style="list-style-type: none"> Working in wholes rather than parts <ul style="list-style-type: none"> -When viewing world systems as nested wholes, interconnections and relationships become clear -These interconnections and relationships help to engage people, places, and organizations Being of service <ul style="list-style-type: none"> -Becoming indispensable as professionals, organizations, and communities to those we exist with Account for uniqueness <ul style="list-style-type: none"> -By identifying and connecting to uniqueness, we can better activate authentic, inspired change across natural, social, and economic systems From separate to aligned with nature <ul style="list-style-type: none"> -Intentionally increasing vitality, viability, and capacity to evolve From problems to potential <ul style="list-style-type: none"> -Recognizing opportunities at every turn -Thinking about regenerative design as realizing potential instead of solving problems 	<p>Other Large Scale Regenerative Design Focused Organizations and Individuals:</p> <p>Biophilia Foundation</p> <p>“Premised on the belief that only private landowners’ efforts to restore and protect natural resources, especially wildlife habitat, will recover the living resources of the degraded lands and watersheds”</p> <p>Arcosanti Cosanti Foundation</p> <p>“Continues to be developed as an experiential learning center, walk-through demonstration of how to pursue efficient “lean” alternatives to urban sprawl”</p> <p>Biophilic Cities</p> <p>“Partners with cities, scholars and advocates from across the globe to build an understanding of the value and contribution of nature in cities to the lives of urban residents”</p> <p>Global Ecovillage Network (GEN)</p> <p>“Envisions a world of empowered citizens and communities, designing and implementing their own pathways to a sustainable future, and building bridges of hope and international solidarity”</p> <p>Timothy Beatley Biophilic Cities, 2011</p> <p>“This book is a first effort at explicating and tentatively defining what a biophilic city is and what it might look and feel like”</p>
<p>https://living-future.org/lcc/basics/</p> <p>*Petals- categories of performance areas *Imperatives- detailed requirements</p>	<p>https://www.21stcenturydevelopment.org/ https://www.21stcenturydevelopment.org/development-matrix/</p>	<p>https://www.breeam.com/discover/technical-standards/communities/</p>	<p>https://regenesisgroup.com/ Mang, Pamela. Haggard, Ben. <i>Regenerative Development and Design: A Framework for Evolving Sustainability</i>. John Wiley & Sons, Inc, 2016.</p>	<p>https://www.clearabundance.org/lenses/</p>	<p>https://www.biophiliafoundation.org/efforts/ https://arcosanti.org/ https://www.biophiliccities.org/ https://ecovillage.org/about/vision-mission-goals/ Beatley, Timothy. <i>Biophilic Cities: Integrating Nature into Urban Design and Planning</i>. Island Press, 2011.</p>