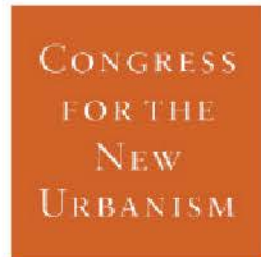


A Collaborative Program



**LEED FOR
NEIGHBORHOOD
DEVELOPMENT**

Evolution of LEED-ND

2004

Begin development of rating system with a core committee

2007

Pilot Program Launches

2008

Revisions to rating system
Public comment periods begin

2009

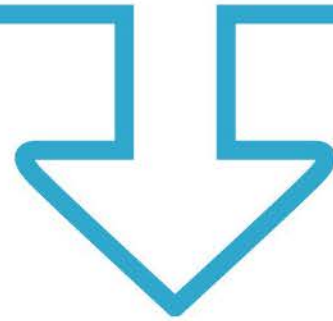
Public comment periods end
Full post-pilot rating system ballot

What LEED-ND Is:

SMART
GROWTH

NEW
URBANISM

GREEN
BUILDINGS



IMPROVED QUALITY OF LIFE

The Differences

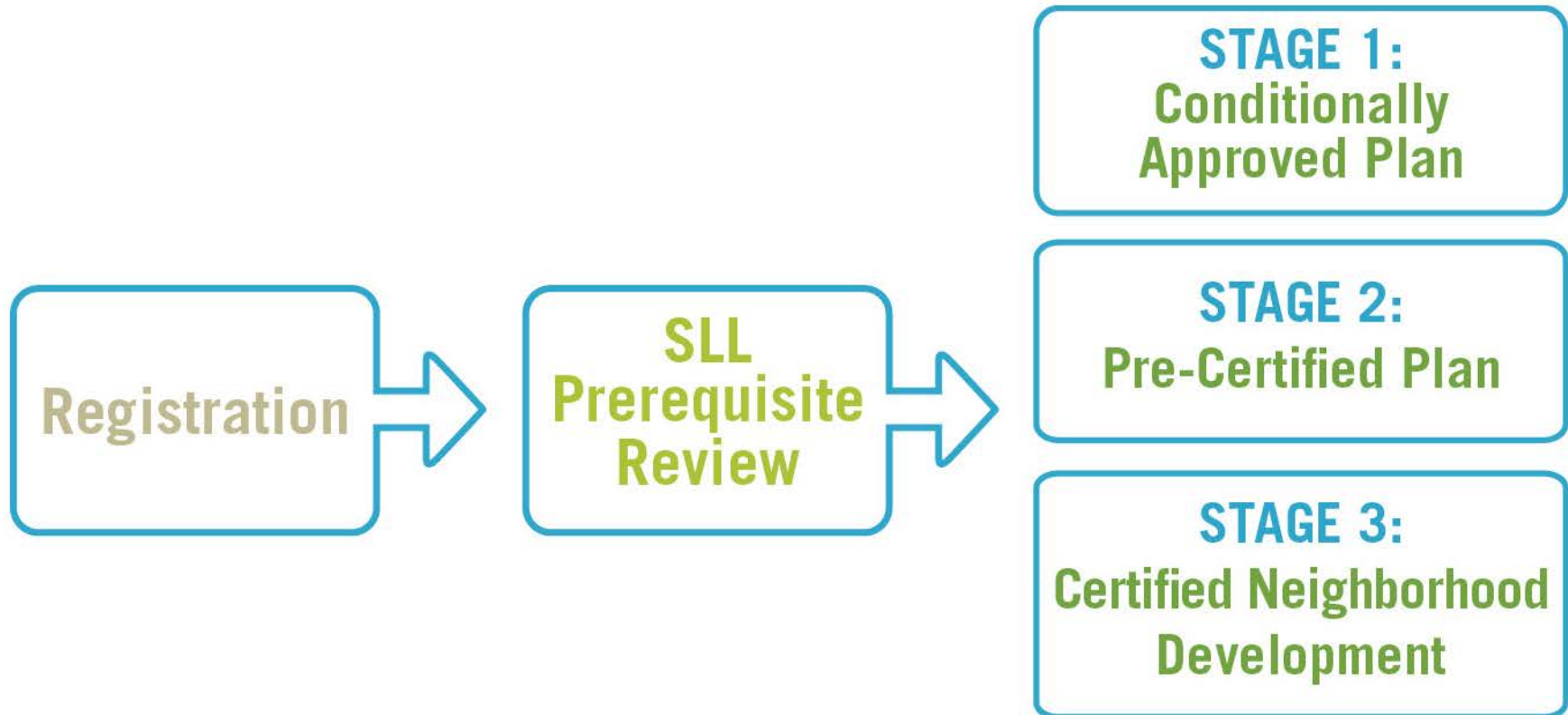
How is it different from other LEED rating systems?

- Primary focus on location and land use
- Looks beyond individual buildings
- Different credit categories

Eligible Projects

- Residential, commercial, mixed-use
- Whole, portions of, or multiple neighborhoods
- New or re-development
- Appropriate sites in urban, suburban, and village areas

Certification Process



Certification Levels

LEED for Neighborhood Development certifications are awarded according to the following scale:

- **Certified** 40–49 points
- **Silver** 50–59 points
- **Gold** 60–79 points
- **Platinum** 80 points and above



LEED-ND as Policy Tool Guidance for Local/State Govts

✓ Use as basis for financial incentives for projects.

✓ Use as a basis for structural incentives for projects.

✓ Evaluate your own zoning, regs, and master plans.

✓ Be familiar with the rating system.

✗ Expect it to replace comp plans, zoning, or planning itself.

✗ Expect it to replace environmental regulations.

✗ Expect to be able to certify your town, city, or comp plan.

LEED ND as a Guide

- Designing Low Carbon Neighborhoods With LEED ND
- A Local Government Guide to LEED for Neighborhood Development

www.usgbc.org



Credit Categories

LEED® for Neighborhood Development

Total Possible Points 110***

 **Smart Location & Linkage 27**

 **Neighborhood Pattern & Design 44**

 **Green Infrastructure & Buildings 29**

** Out of a possible 100 points + 10 bonus points*

*** Certified 40+ points, Silver 50+ points,
Gold 60+ points, Platinum 80+ points*

 **Innovation & Design Process 6**

 **Regional Priority Credit 4**

Smart Location and Linkage

Smart Locations and Linkages (SLL) has 9 credits and provides up to 27 possible points



SLL has 5 required Prerequisites:

- **Smart Location**
- **Imperiled Species and Ecological Communities**
- **Wetland and Water Body Conservation**
- **Agricultural Land Conservation**
- **Floodplain Avoidance Required**



Smart Location and Linkage Credits

Credit 1. Preferred Locations (10)

Credit 2. Brownfield Redevelopment (2)

Credit 3. Locations with Reduced Automobile Dependence (7)

Credit 4. Bicycle Network and Storage (1)

Credit 5. Housing and Jobs Proximity (3)

Credit 6. Steep Slope Protection (1)

Credit 7. Habitat or Wetland & Water Body Conservation (1)

Credit 8. Habitat or Wetlands & Water Bodies Restoration(1)

Credit 9. Long-Term Conservation Management of Habitat or Wetlands and Water Bodies (1)





Smart Location & Linkage

Measure Location

- Proximity to existing development
- Proximity to goods and services
- Proximity to existing infrastructure

Enhance Location

- Preserve sensitive lands
- Locate jobs near housing
- Provide bicycle amenities





Neighborhood Pattern & Design

Compact, Complete, Connected

- **People connected to place and to each other**
- **Shared public spaces**
- **Nearby goods and services**





Neighborhood Pattern & Design

Neighborhood Pattern and Design (NPD) has 15 credits and provides up to 44 possible points.



NPD has 3 required prerequisites:

- **Walkable Streets**
- **Compact Development**
- **Connected and Open Community**



Neighborhood Pattern & Design

Credit 1. Walkable Streets (12)

Credit 2. Compact Development (6)

Credit 3. Mixed-Use Neighborhood Centers (4)

Credit 4. Mixed-Income Diverse Communities (7)

Credit 5. Reduced Parking Footprint (1)

Credit 6. Street Network (2)

Credit 7. Transit Facilities (1)

Credit 8. Transportation Demand Management (2)

Credit 9. Access to Civic and Public Spaces (1)





Neighborhood Pattern & Design

Credit 10. Access to Recreation Facilities (1)

Credit 11. Visitability and Universal Design (1)

Credit 12. Community Outreach and Involvement (2)

Credit 13. Local Food Production (1)

Credit 14. Tree-Lined and Shaded Streets (2)

Credit 15. Neighborhood Schools (1)

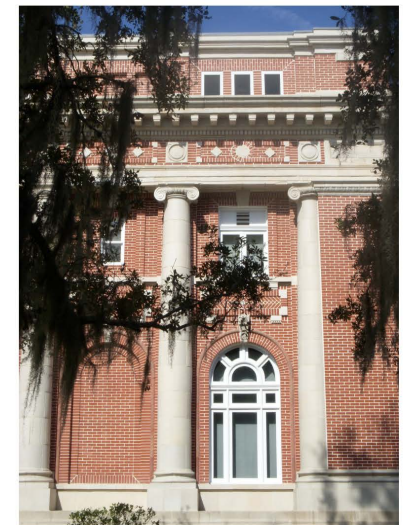




Neighborhood Pattern & Design

Green Neighborhoods Have Great Variety

- **Historic buildings**
- **Housing in many types and prices**
- **Farmer's markets and community gardens**
- **Neighborhood schools**
- **Civic spaces**
- **Community participation in design**





Green Infrastructure & Buildings

Energy Use

24%-50%

CO₂ Emissions

33%*** -39%**

Water Use

40%**

Solid Waste

70%**

Green Buildings Can Reduce...

* Turner, C. & Frankel, M. (2008), Energy performance of LEED for New Construction buildings. Final report.

** Kats, G. (2003). The Costs and Financial Benefits of Green Building. A Report to California's Sustainable Building Task Force.

*** GSA Public Buildings Service (2008). Assessing green building performance. A post occupancy evaluation of 12 GSA buildings.



Green Infrastructure & Buildings

Green Infrastructure and Buildings has 17 credits and provides up to 44 points



GBI has 4 required prerequisites:

- **Certified Green Building**
- **Minimum Building Energy Efficiency Required**
- **Minimum Building Water Efficiency Required**
- **Construction Activity Pollution Prevention**

Green Infrastructure & Buildings Credits 1 - 9

Credit 1. Certified Green Buildings (5)

Credit 2. Building Energy Efficiency (2)

Credit 3. Building Water Efficiency (1)

Credit 4. Water-Efficient Landscaping (1)

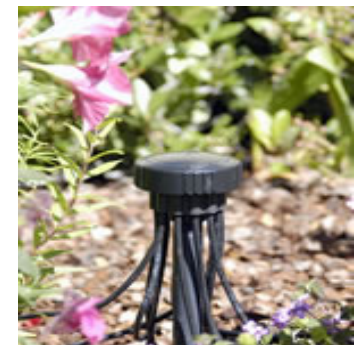
Credit 5. Existing Building Use (1)

Credit 6. Historic Resource Preservation & Adaptive Reuse (1)

Credit 7. Minimized Site Disturbance in Design and Construction (1)

Credit 8. Stormwater Management (4)

Credit 9. Heat Island Reduction (1)



Green Infrastructure & Buildings Credits 10 - 17

Credit 10. Solar Orientation (1)



Credit 11. On-Site Renewable Energy Sources (3)

Credit 12. District Heating and Cooling (2)

Credit 13. Infrastructure Energy Efficiency (1)

Credit 14. Wastewater Management (2)

Credit 15. Recycled Content in Infrastructure (1)

Credit 16. Solid Waste Management Infrastructure (1)

Credit 17. Light Pollution Reduction (1)





Green Infrastructure & Buildings

Green Infrastructure as Neighborhood Amenities



Image courtesy of Dattner Architects/Grimshaw/Lee Weintraub Landscape