2015 Enterprise Green Communities Criteria

Krista Egger
Enterprise Green Communities
Agenda

10:00 Welcome / Introductions
10:20 Sustainability Discussion
10:35 Module #1
11:30 Module #2
12:00 Module #3
12:30 Lunch
1:00 Module #4
1:20 Certification Process
1:45 Wrap-up
2:00 Adjourn
Introductions

Name | Role

What are your goals for today?
“We believe, because it is true, that people are affected by their environment, by space and scale, by color and texture, by nature and beauty, that they can be uplifted, made to feel important.”

Jim Rouse | Founder
Enterprise Green Communities is transforming the way America thinks about, designs, builds, and rehabilitates affordable housing.

Green building integrates materials and methods that promote environmental quality, economic vitality, and social benefits through design, construction and operations of the built environment.

Enterprise Green Communities aligns affordable housing investment strategies with environmentally responsive building practices.
Since 2004, we’ve impacted more than 127,000 homes and invested $3.9 billion in the development and preservation of green and affordable homes.
A holistic approach to building a green community

- Integrative Design
- Location + Neighborhood Fabric
- Site Improvements
- Energy Efficiency
- Water Conservation
- Materials
- Healthy Living Environment
- Operations, Maintenance + Resident Engagement
Programmatic Requirements

meet mandatory criteria

35 optional points
NEW CONSTRUCTION

30 optional points
SUBSTANTIAL & MODERATE REHABILITATIONS
Enterprise Green Communities is improving the health and well-being of low-income people by transforming the quality of affordable housing in America. By aligning affordable housing investment strategies with environmentally responsive building practices, Enterprise is leading the national effort to ensure that people living in affordable housing are healthier, spend less money on utilities, and have more opportunities through their connections to transportation, quality food and healthcare systems.

As of October 7, 2015, all project teams submitting new PreBuild Certification applications must use the 2015 Criteria.
www.enterprisecommunity.org/Green → **Criteria & Certification**

- 2015 Criteria Manual
- 2015 Criteria Checklist
- New York City Overlay of the Enterprise Green Communities Criteria
- Utility Benchmarking FAQ
- 2015 Criteria FAQ
- 2015 Criteria Addenda
- 2015 Criteria Ambassador Brief
www.enterprisecommunity.org/Green → Criteria & Certification

Certification Eligibility and Requirements
Certification Process At a Glance
Supplemental Document Instructions

- Image release form
- Criterion 1.2a Resident Health and Well-Being Design for Health template
- Criterion 1.2b Resident Health and Well-Being: Health Action Plan
- Criterion 4.2 Advanced Water Conservation template
- Criterion 5.1 Building Performance Standard - Energy Performance Report Form
- Criteria 5.1a & 5.1c Building Performance Standard: Sampling Guidance
- Criterion 8.5/8.6 Utility Accounts Instruction

![CERTIFICATION PORTAL](Get Started!)
A holistic approach to building a green community

- Integrative Design
- Location + Neighborhood Fabric
- Site Improvements
- Energy Efficiency
- Water Conservation
- Materials
- Healthy Living Environment
- Operations, Maintenance + Resident Engagement
Here's the checklist... it's your tool! To help identify your objectives...
Today’s Training Modules

- Health
- Placemaking + Site
- Efficiency: Energy + Water
- Materials

2015 ENTERPRISE GREEN COMMUNITIES CRITERIA | JULY 18, 2018
Today’s Training Modules

Placemaking + Site
Integrative Design

Goal Setting and Consensus Building
Integrative Design
Creating Accountability
Selecting a Site

Amenities!
Selecting a Site

Infrastructure – utilities, streets, sidewalks, bike paths
Selecting a Site

Transportation
Site Planning

Stormwater Management

- During Construction

2015 ENTERPRISE GREEN COMMUNITIES CRITERIA | PLACEMAKING + SITE
Site Planning

Stormwater Management

• During Construction
• Post Construction
Site Planning

Landscaping

- Native, Climate-appropriate plantings
- Irrigation strategies
- Pests and Integrated Pest Management
Site Planning for the Future - Resiliency
Site Planning for the Future - Resiliency
Pride of Place

Creating community with community input
Pride of Place

Communications and signage
Pride of Place

Local Food, Food Access, and Gardens
Pride of Place

Operations, Maintenance + Resident Engagement
Today’s Training Modules

Placemaking + Site

• The Importance of Integrative Design
• Site Amenities
• Site Planning
• Not just housing, a sense of place
Today’s Training Modules

- Health
- Placemaking + Site
- Efficiency: Energy + Water
- Materials
Today’s Training Modules

Efficiency: Energy + Water
Efficiency: Energy & Water
Efficiency: Energy & Water

Design
Specifications
Installation
Monitoring
reduce energy use
(building envelope improvements)
Efficiency: Energy & Water

- use energy efficiently
  (efficient products)

- reduce energy use
  (building envelope improvements)
Efficiency: Energy & Water

produce energy (renewables)

use energy efficiently (efficient products)

reduce energy use (building envelope improvements)
Efficiency: Energy & Water

Design
Specifications
Installation
Monitoring
reduce energy use
use energy efficiently
reduce energy use

EFFICIENCY: ENERGY & WATER
produce energy
use energy efficiently
reduce energy use
Efficiency: Energy & Water

Design
Specifications
Installation
Monitoring
69 gallons/person/day

Source: American Water Works Association, Drinktap.org 2010 & Handbook of Water Use and Conservation

2015 ENTERPRISE GREEN COMMUNITIES CRITERIA | EFFICIENCY: ENERGY & WATER
Figure 5. Average daily indoor per capita water use REU1999 and REU2016

15% DECREASE PER CAPITA DAILY WATER USE 1999 TO 2016
Daily Measured Water Consumption for Two Properties (In gallons per hour)
Efficiency: Energy & Water

Design
Specifications
Installation
Monitoring
Today’s Training Modules

- Health
- Placemaking + Site
- Efficiency: Energy + Water
- Materials

2015 ENTERPRISE GREEN COMMUNITIES CRITERIA | JULY 18, 2018
Today’s Training Modules

Materials
Integrative Design

Materials

• Design considerations
• Durability & Lifecycle
• Operations & Maintenance
Materials Selection

• Indoors and outdoors
• Seen and unseen
Materials Selection

Durability and Lifecycle
Materials Selection

• Recycled Content
Materials Selection

- Recycled Content
- Regional Production
Materials Selection

- Recycled Content
- Regional Production
- Transparency
Materials Selection

- Recycled Content
- Regional Production
- Transparency
- Indoor Air Quality
Materials Installation

Water Damage – indoor / outdoor
Materials Installation

Water Damage – indoor / outdoor
Materials – Waste Management

Recycle building materials after the building is out of use.

- Flooring / Paneling
- Doors & Hardware
- Molding & Cabinetry
- Plumbing (sinks, faucets, etc)
- UL-rated lighting
Resident Recycling
Operations, Maintenance and Resident Engagement

Installation and maintenance information must be communicated, or all products will fail
Today’s Training Modules

Materials

• The Importance of Integrative Design + OM
• Responsible Material Selection
• Installation
• Waste and Recycling
Today’s Training Modules

- Health
- Placemaking + Site
- Efficiency: Energy + Water
- Materials
Today’s Training Modules

Health
Healthy Home
Healthy Home

Environmental Features
How a home is designed
How a home is built
How a home is maintained
Environmental Features

HEALTHY HOME
Environmental Features
How a home is designed
How a home is designed
How a home is designed
How a home is designed
How a home is designed
How a home is designed
How a home is built
How a home is maintained
How a home is maintained
## The Monetary Impact

Cost to Rehabilitate a Unit Where Smoking is Prohibited vs. a Unit Where Smoking is Allowed

<table>
<thead>
<tr>
<th></th>
<th>Non-Smoking</th>
<th>Light Smoking</th>
<th>Heavy Smoking</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Cleaning</td>
<td>$240</td>
<td>$500</td>
<td>$720</td>
</tr>
<tr>
<td>Paint</td>
<td>$170</td>
<td>$225</td>
<td>$480</td>
</tr>
<tr>
<td>Flooring</td>
<td>$50</td>
<td>$950</td>
<td>$1,425</td>
</tr>
<tr>
<td>Appliances</td>
<td>$60</td>
<td>$75</td>
<td>$490</td>
</tr>
<tr>
<td>Bathroom</td>
<td>$40</td>
<td>$60</td>
<td>$400</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$560</strong></td>
<td><strong>$1,810</strong></td>
<td><strong>$3,515</strong></td>
</tr>
</tbody>
</table>

Healthy Home

Environmental Features
How a home is designed
How a home is built
How a home is maintained
Today’s Training Modules

Health

Placemaking + Site

Efficiency: Energy + Water

Materials
Integrative Design

Operations, Maintenance + Resident Engagement

Healthy Living Environment

Materials

Energy Efficiency

Location + Neighborhood Fabric

Site Improvements

Water Conservation

2015 ENTERPRISE GREEN COMMUNITIES CRITERIA | JULY 18, 2018
Application
Programmatic Requirements

meet mandatory criteria

35 optional points
NEW CONSTRUCTION

+ 30 optional points
SUBSTANTIAL & MODERATE REHABILITATIONS
Certification

**Prebuild**
*(prior to construction)*
- Project overview
- Intended methods
- Upload: site plan, context map, energy modeling form, Category 8 outlines, other supplemental documents as necessary

**Postbuild**
*(within 60 days of construction completion)*
- Update information
- Upload: project photos & release, Category 8 documents, utility access, other supplemental documents as necessary

**All submittals reviewed within 30 days**
Certification Portal

[Login form]

[Create an Account form]

[Logos and icons]
Select Certification Template

Certification Template

- New York City Overlay of the Enterprise Green Communities Criteria
- Certification Workbook 2015

Construction Type

- New Construction
- Substantial Rehab
- Moderate Rehab
www.enterprisecommunity.org/Green

Tools

- Green Communities Criteria
- Charrette Tools
- Resident Engagement
- Operations & Maintenance
- Research & Evaluation
- Online Event Archive

Our clear, cost-effective framework for all affordable Housing. >>
Customizable resources to aid your integrative design plans. >>
Mobilize residents to help maximize energy-saving efforts. >>
Green efforts continue after construction ends! >>
Discover new research and practical insights in green building and affordable housing. >>
Download one of over 30 webinars we've hosted with leaders and experts in green affordable housing >>

- Construction Specs Templates
- Tools for Resilience
- Retrofit Toolkit
- Technical Assistance Database

Editable specs in MasterSpec format that correspond to the 2015 Criteria. >>
Tools to help housing organizations prepare for and respond to disasters >>
Upgrade existing multifamily buildings with energy-efficient features and systems. >>
Experts ready to address your affordable housing technical needs. >>
Wrap-Up
certification@enterprisecommunity.org

THANK YOU