

# U.S. Green Building Council (USGBC) & LEED® Green Building Rating System Applications

Paki Taylor, EI, LEED AP  
Sunbelt Engineering, Inc.  
Jacksonville, Florida

Vice President, USGBC- North Florida Chapter



**LEED**<sup>™</sup>  
LEADERSHIP IN ENERGY & ENVIRONMENTAL DESIGN



# U.S. Green Building Council (USGBC)

- A national nonprofit organization
- A diverse membership of building industry leaders
- Developer and administrator of the LEED® Green Building Rating System



# Environmental Impact of Buildings

- 65.2% of total U.S. electricity consumption
- > 36% of total U.S. primary energy use
- 30% of total U.S. greenhouse gas emissions
- 136 million tons of construction and demolition waste in the U.S. (approx. 2.8 lbs/person/day)
- 12% of potable water in the U.S.
- 40% (3 billion tons annually) of raw materials use globally
- \* Commercial and residential



# **Green Building Design**

- **Design and construction practices that minimize environmental impact in five (5) broad categories:**

**Sustainable Sites**

**Energy & Atmosphere**

**Water Efficiency**

**Materials & Resources**

**Indoor Environmental Quality**

# Benefits of Green Building Design

- **Environmental Benefits**
- **Economic Benefits**
- **Health and Safety Benefits**
- **Community Benefits**



# What is LEED™?

Green Building Rating System

LEED - “Leadership in Energy & Environmental Design”

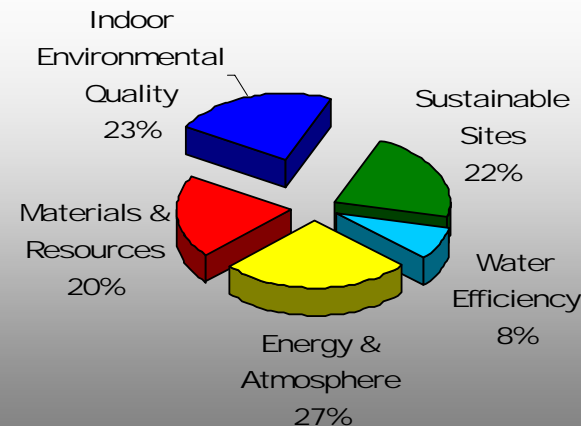
Promote whole-building, integrated design processes

Raise awareness and transform the marketplace!

# LEED-NC<sup>®</sup> Point Distribution

Five LEED credit categories

<u>Category</u>	<u>Possible Points</u>
Sustainable Sites	14
Water Efficiency	5
Energy & Atmosphere	17
Materials & Resources	13
Indoor Environmental Air Quality	15
<u>Innovation &amp; Design</u>	<u>5</u>
<b>Total</b>	<b>69</b>



# Technical Overview of LEED™

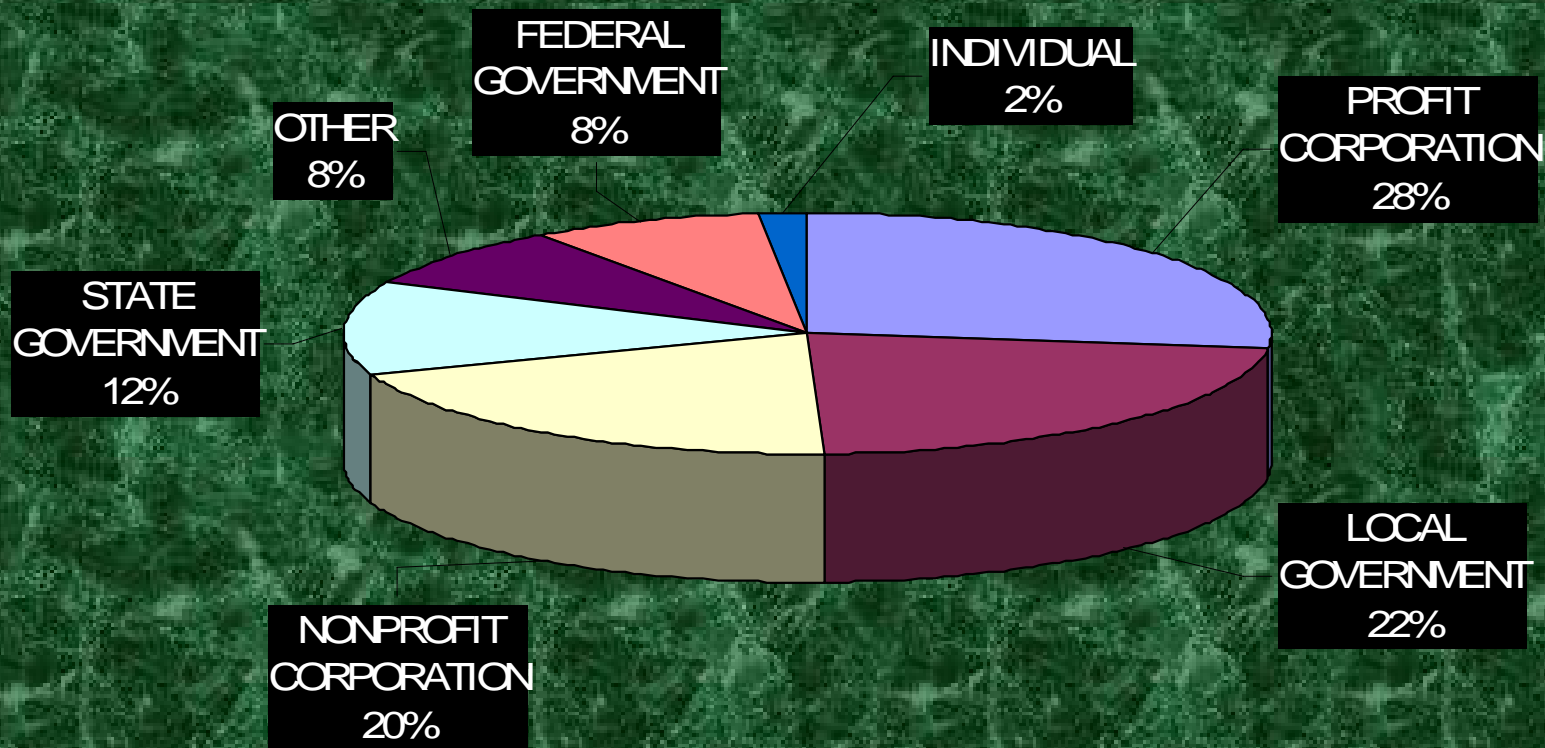
- Four levels of certification

- LEED Certified 26 - 32 points
- Silver Level 33 - 38 points
- Gold Level 39 - 51 points
- Platinum Level 52+ points (69 possible)



# LEED-NC<sup>®</sup> Market Transformation

- Registered Projects by Owner Type

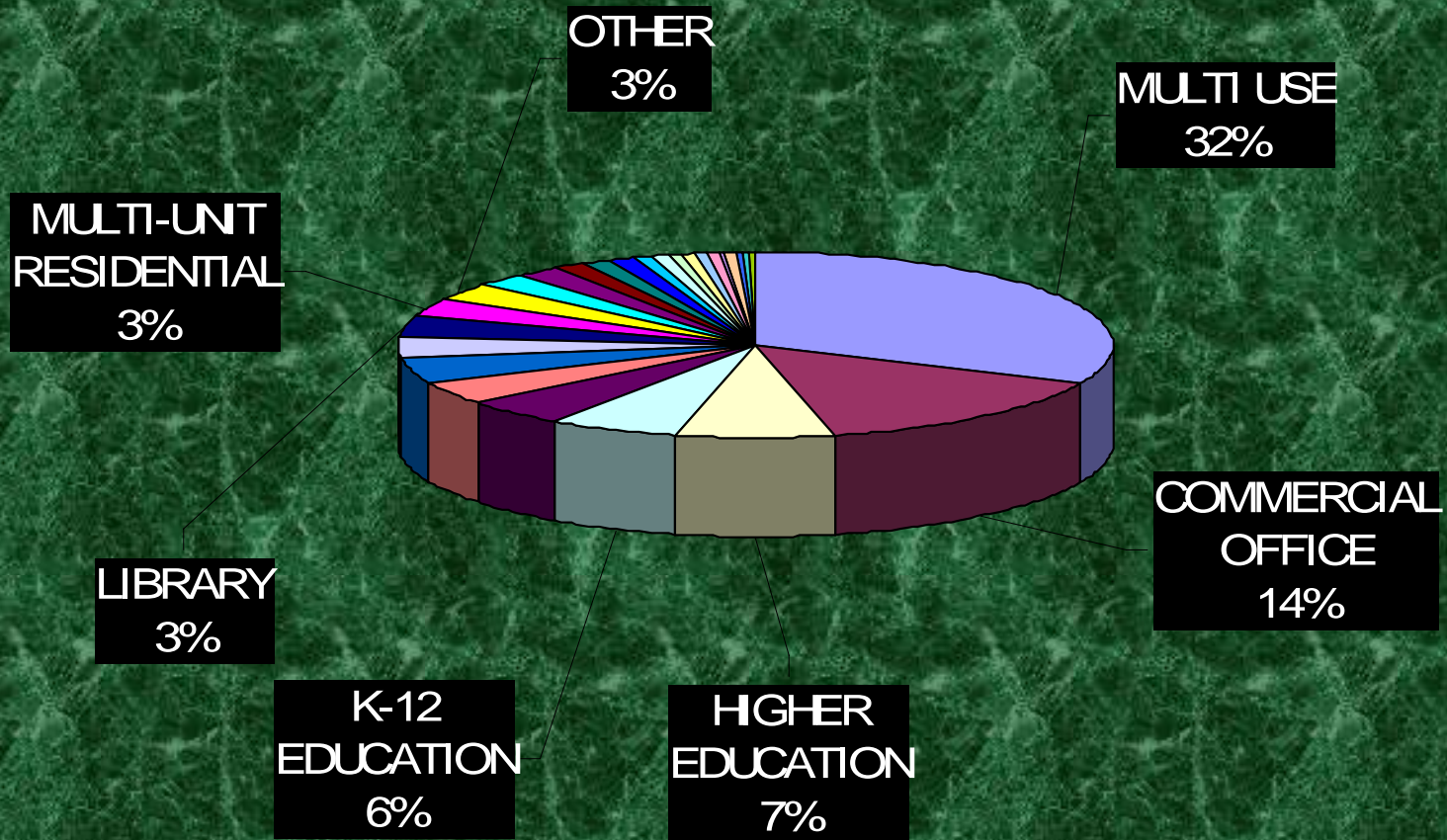


As of 10.19.05

All statistics exclude pilot projects

# LEED-NC<sup>®</sup> Market Transformation

## ■ Registered Projects by Building Type



As of 10.19.05

All statistics exclude pilot projects





# UNF Social Sciences Building Jacksonville, Florida

- LEED Certification expected in December 2006
- First LEED building in Duval County





# UNF Social Sciences Building Jacksonville, Florida

- Sustainable Sites – 7 pts
- Water Efficiency – 4 pts
- Energy & Atmosphere – 2 pts
- Materials & Resources – 6 pts
- Indoor Environmental Quality – 10 pts
- Innovations & Design Process – 5 pts

Total Points = 34 (Certified Level)

