IMPACTS OF U.S. BUILDINGS ON RESOURCES

40% primary energy use*

72% electricity consumption*

39% CO_2 emissions*

13.6% potable water consumption**

Sources:
*Environmental Information Administration (2008). EIA Annual Energy Outlook.
** U.S. Geological Survey (2000). 2000 data.

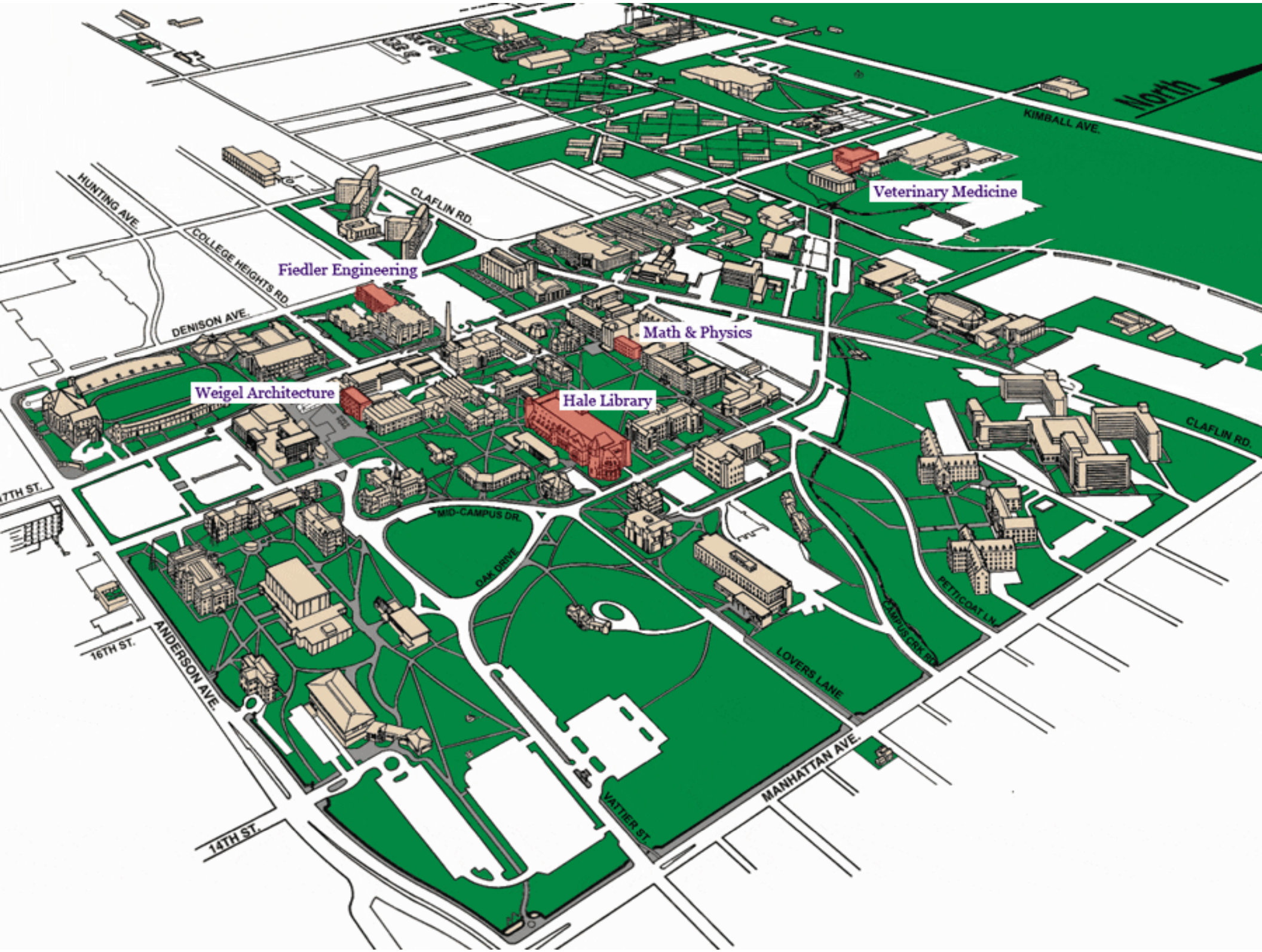
Global CO_2 Emissions by Sector

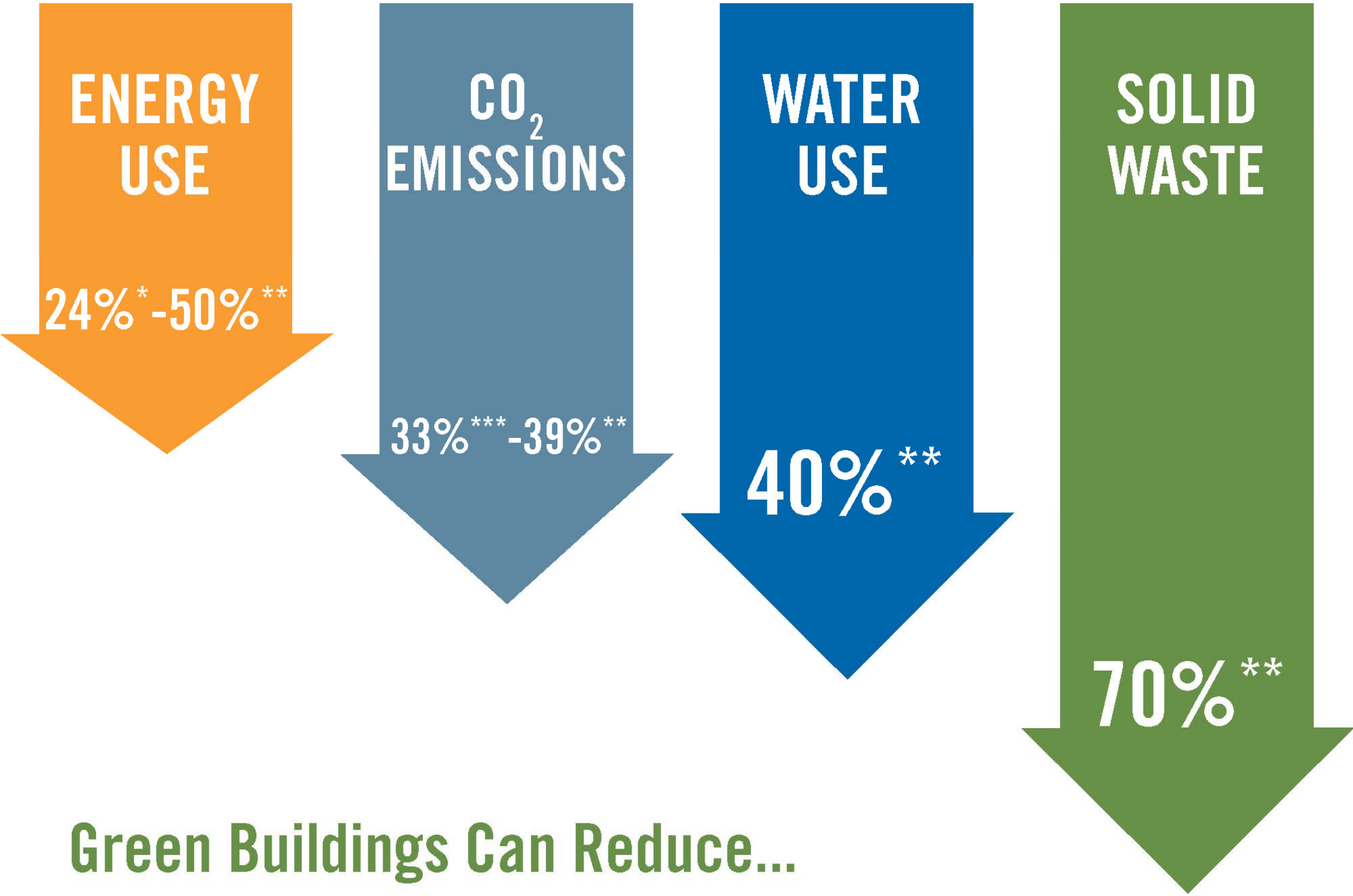
#1. Buildings

#2. Transportation

#3. Industry

Source: Energy Information Administration (2006). Emissions of Greenhouse Gases in the United States.

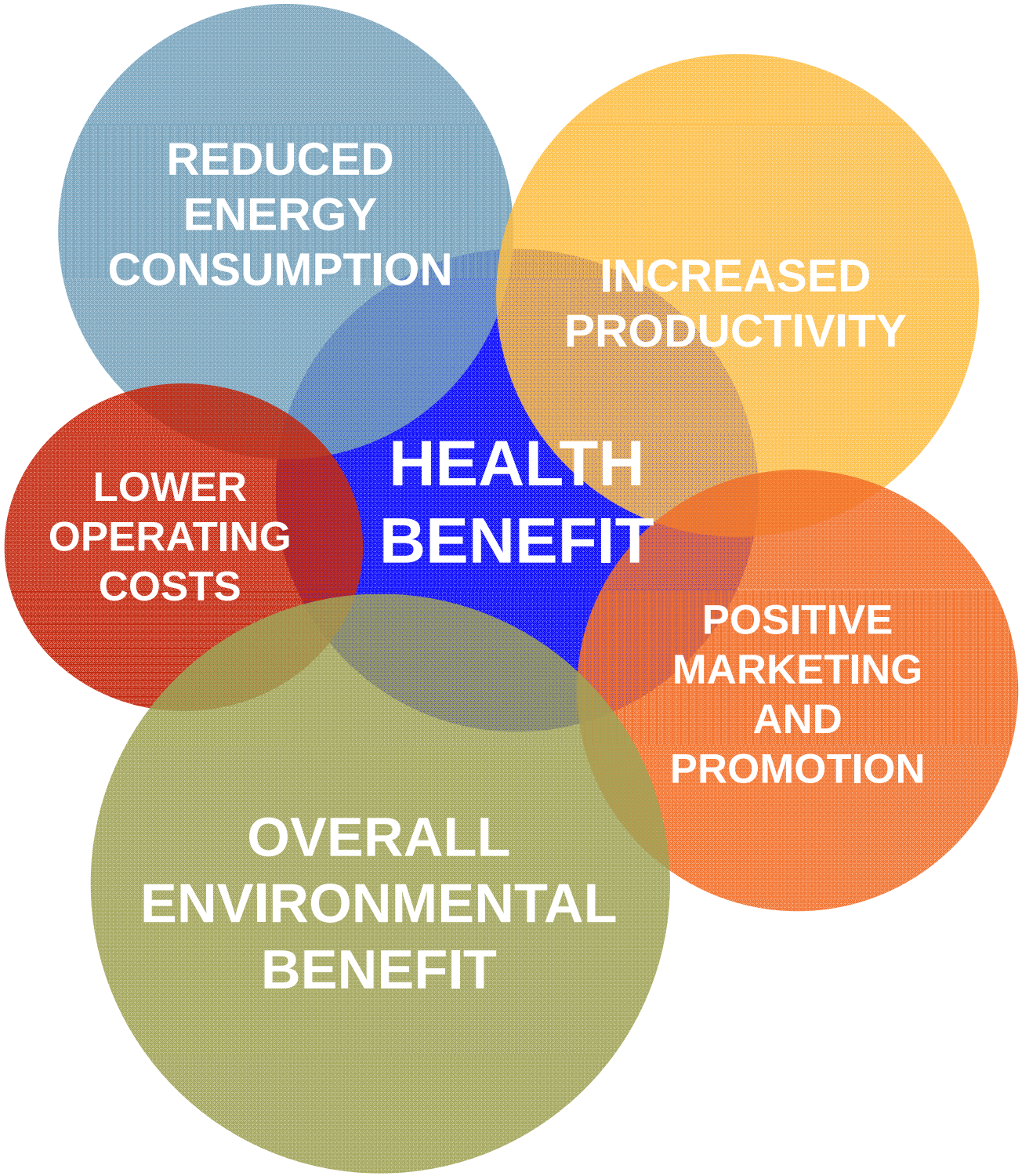

North
KIMBALL AVE.
Veterinary Medicine
CLAFLIN RD.
HUNTING AVE.
COLLEGE HEIGHTS RD.
Fiedler Engineering
DENISON AVE.
Math & Physics
Weigel Architecture
Hale Library
CLAFLIN RD.
17TH ST.
MID-CAMPUS DR.
OAK DRIVE
PETTICOAT LN.
16TH ST.
ANDERSON AVE.
LOVERS LANE
MANHATTAN AVE.
VATTIER ST.
14TH ST.



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 Building benefits:



Leadership in Energy & Environmental Design

What is the LEED System?

LEADERSHIP in ENERGY and ENVIRONMENTAL DESIGN

A leading-edge system for certifying **DESIGN, CONSTRUCTION, & OPERATIONS** of the greenest buildings in the world

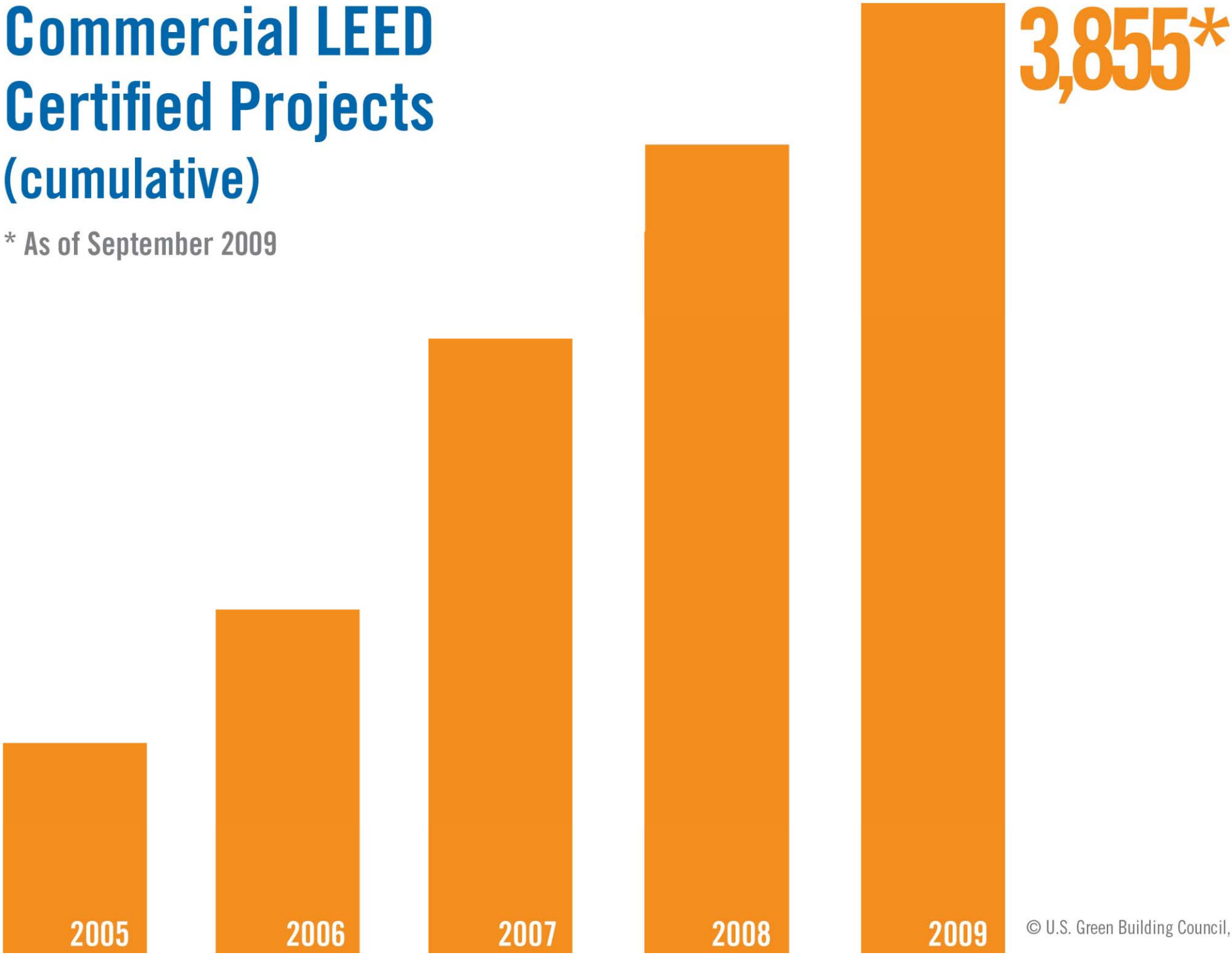
Scores are tallied for different aspects of efficiency and design in appropriate categories.

For instance, LEED assesses in detail:

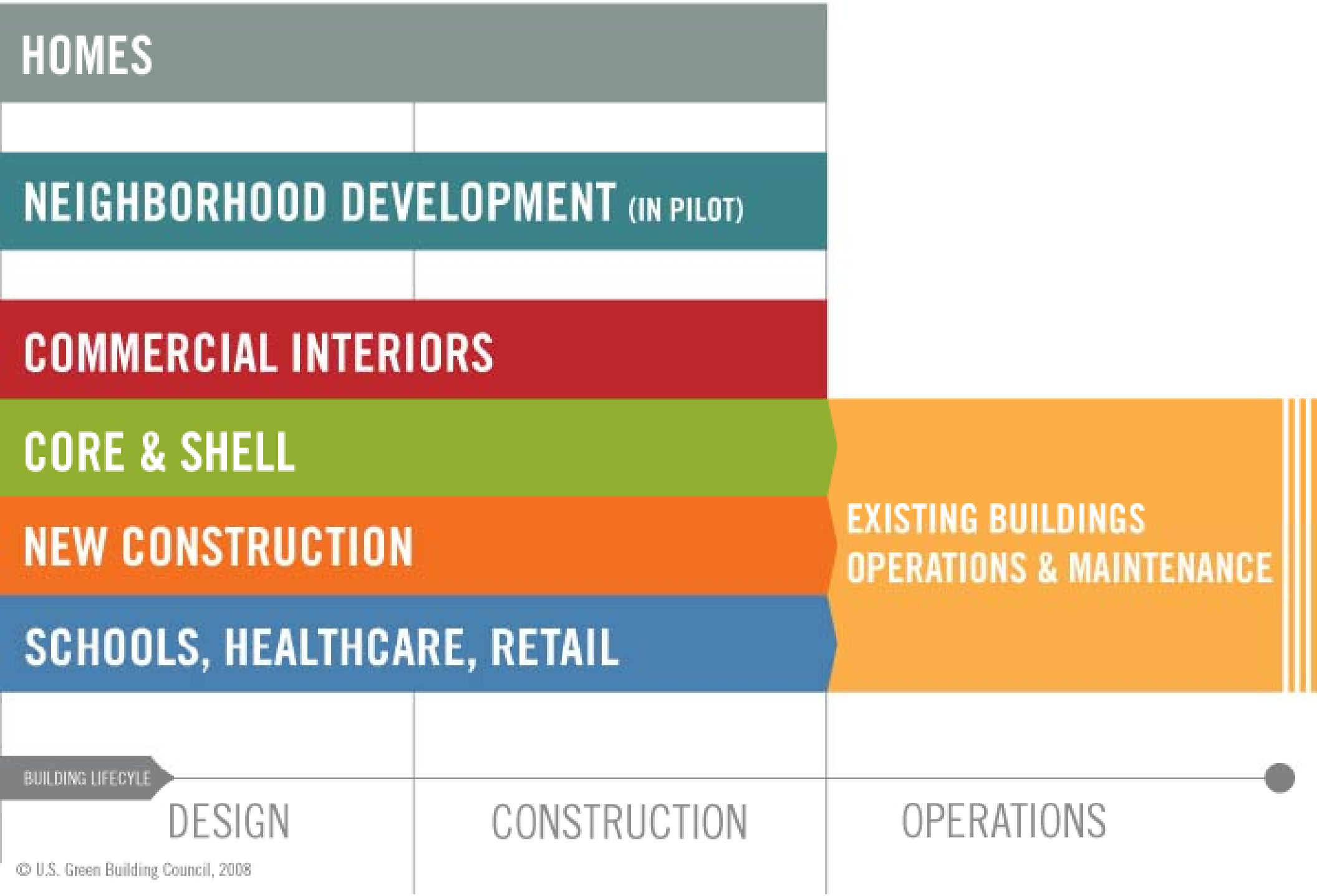
1. Site Planning
2. Water Management
3. Energy Management
4. Material Use
5. Indoor Environmental Air Quality
6. Innovation & Design Process

Commercial LEED Certified Projects (cumulative)

* As of September 2009



LEED address the complete lifecycle of buildings:



Federal Government Use of LEED

- General Services Administration (GSA)
- U.S. Air Force, U.S. Navy
- U.S. Army Corps of Engineers
- Departments of State, Interior, Agriculture
- Department of Energy (DOE)
- Environmental Protection Agency (EPA)
- Depts. of Agriculture, Interior, State
- NASA, Smithsonian
- Health & Human Services

State Government Use of LEED

Arkansas, Arizona, California, Colorado
Connecticut, Georgia, Maine, Maryland
Massachusetts, Nevada, New Jersey, New York
Ohio, Oregon, Pennsylvania, Washington
Florida, Hawaii, Illinois, Indiana, Kentucky
Louisiana, Michigan, Minnesota, New Mexico
North Carolina, Oklahoma, Rhode Island
S Carolina, S Dakota, Virginia, Wisconsin

Government & School Use of LEED

44 states

122 cities

34 counties

30 towns

31 state governments

12 federal agencies or departments

15 public school jurisdictions

39 institutions of higher education

May 09

USDA Service Center
Manhattan, KS
LEED Version 2.1 Silver

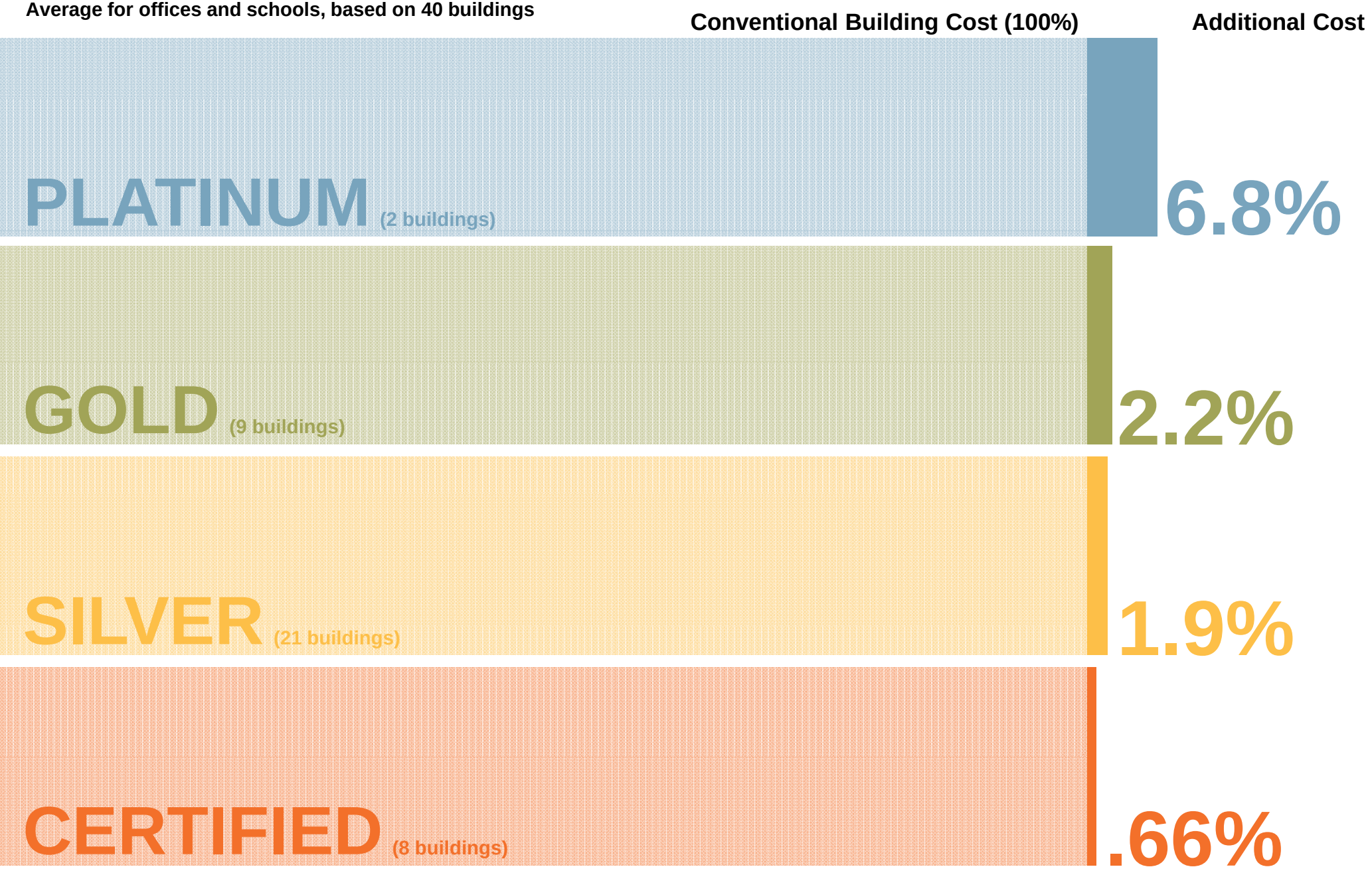
School of Leadership Studies
Kansas State University

OPUS.

January 23, 2009

Additional Construction Costs for LEED-certified buildings

Average for offices and schools, based on 40 buildings



Incremental Capital Costs of 33 USGBC LEED Certified Projects

Level of LEED Certification	Average Green Cost Premium (%of total construction cost)
1. Certified (8 projects)	0.66% (Opus +/- 0%)
2. Silver (18 projects)	2.11%
3. Gold (6 projects)	1.82% (Opus +/- 4%)
4. Platinum (1 project)	6.50%
Average of 33 Buildings	**1.84%**

THANKS!