



Cutting Edge Resiliency in Cohousing
Importance of buildings in becoming resilient

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IMPACTS OF U.S. BUILDINGS ON RESOURCES

40% primary energy use*

72% electricity consumption*

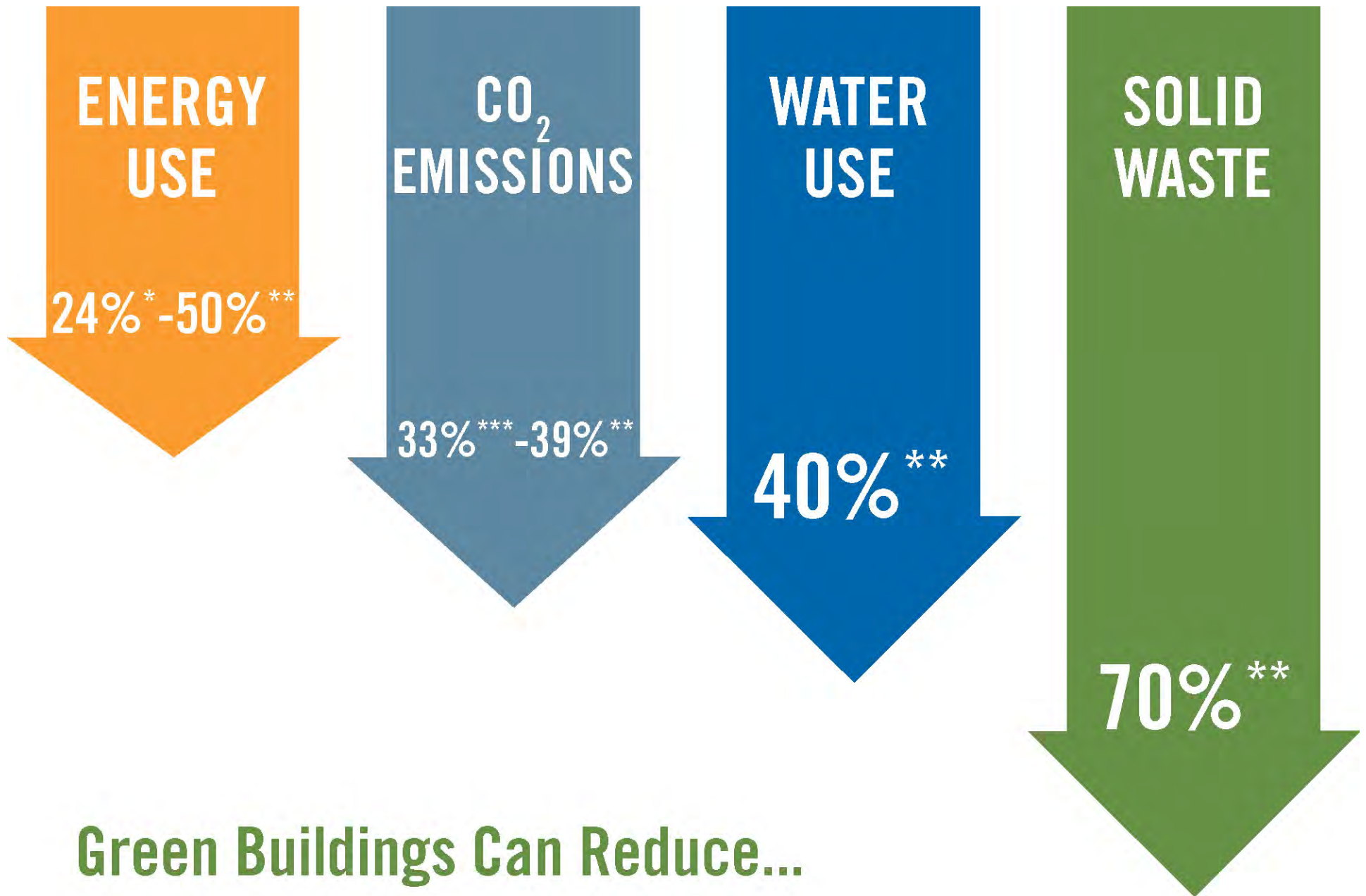
39% CO₂ emissions*

13.6% potable water consumption**

Sources:

*Environmental Information Administration (2008). EIA Annual Energy Outlook.

** U.S. Geological Survey (2000). 2000 data.



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.

Cutting Edge Resiliency Through Buildings

#1 Owner Commitment and Engagement

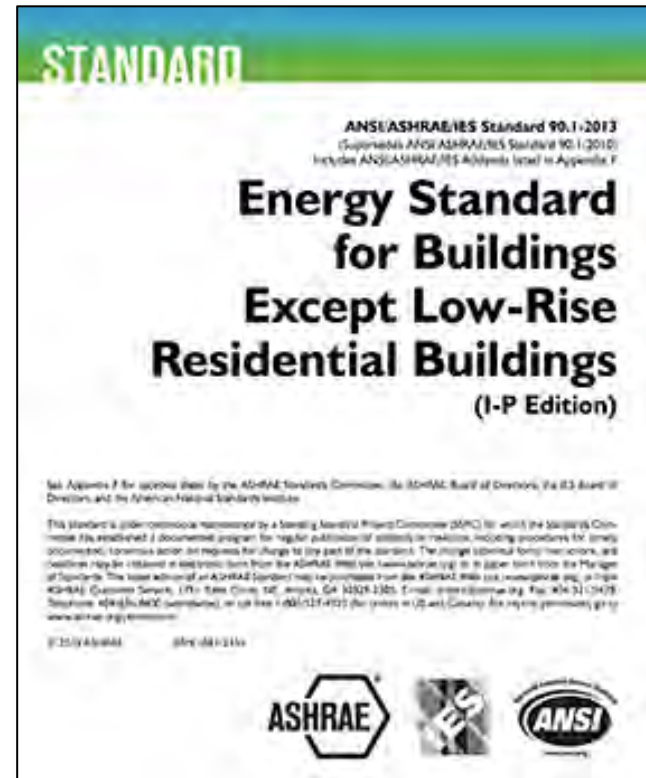
Benefit: Shared intention and guidelines to reduce impacts

Tools:

- Owner's Project Requirements
- Sustainable Basis of Design



**LIVING
BUILDING
CHALLENGE** SM



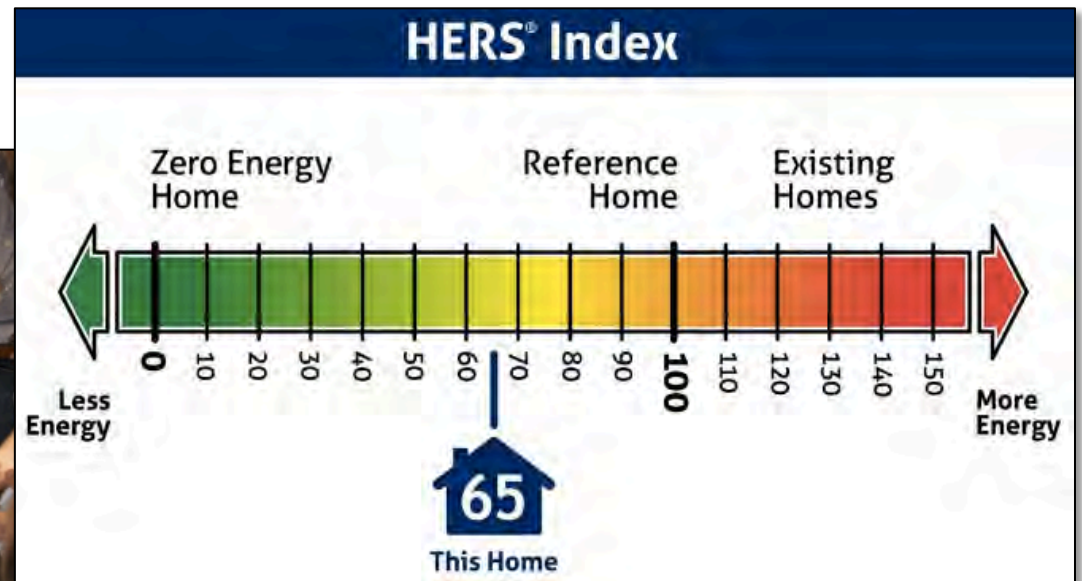
Cutting Edge Resiliency Through Buildings

#2 Integrated Design

Benefit: Negate short term premium, Achieve long term savings

Tools:

- Charrette
- Building Science & Modeling



Cutting Edge Resiliency Through Buildings

#3 Verification

Benefit: Actions speak louder than words

Tools:

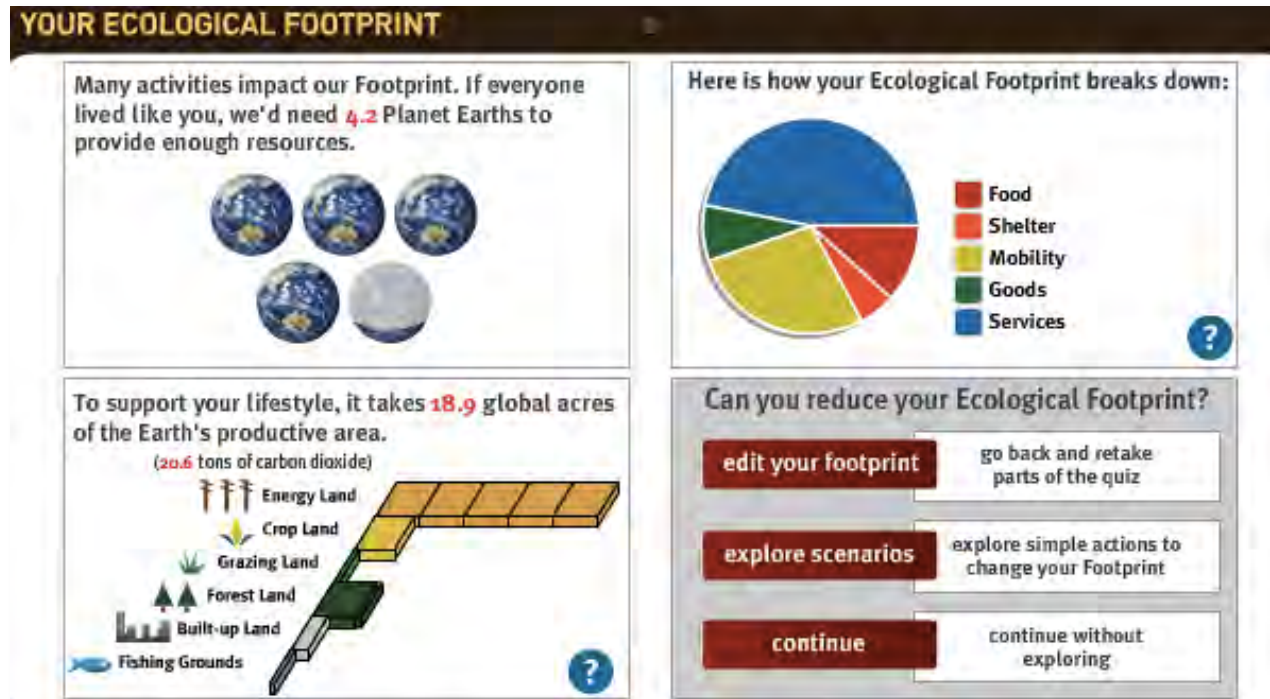
- Sustainable Specifications (materials, third-party standards)
- Performance Testing (envelope & duct leakage, fresh air, exhaust)



Cutting Edge Resiliency Through Buildings

Will resiliency through building be enough?

- Avoid meat and dairy?
- Drive a hybrid vehicle?
- Make the best of 1980's stuff?
- Recycle everything?
- Minimal plane trips annually?
- Save energy and offset the rest?



Buildings are first step of many needed