

Historic Preservation as a Sustainability Tool



- Environmental
- Social
- Economic



LBJ
Signing NHPA
1966

“...the preservation of this irreplaceable heritage **is in the public interest** so that its vital legacy of cultural, educational, aesthetic, inspirational, economic, and **energy** benefits will be maintained and enriched for future generations of Americans.”

P R E S E R V A T I O N :

Reusing America's Energy

Preservation Week May 11-17, 1980



It takes energy to construct a new building.
It saves energy to preserve an old one.

It takes the energy equivalent of one gallon of gasoline to make, deliver and install eight bricks. Preserving eight old bricks instead of throwing them away and making new ones means that the energy of a gallon of gasoline can be used to meet other needs. Reusing old buildings saves the energy required to demolish and replace them with new buildings. And properly rehabilitated old buildings use 50

more energy, on the average, than brand new buildings for operations. Save energy—use a building! Join the National Trust for Historic Preservation and the U.S. Department of Energy in observing Preservation Week again. For details, write to Preservation Week, National Trust, 1716 Massachusetts Ave., N.W., Washington, D.C. 20036. Or contact your local preservation organization.

NATIONAL TRUST FOR HISTORIC PRESERVATION

It **takes** energy
to construct a
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It **saves** energy
to preserve an old
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The Greenest Building: Quantifying the Environmental Value of Building Reuse





UP TO **80** YEARS

Building **reuse** almost
always yields **fewer**
environmental
impacts than new
construction...



1 building = 1,344,000 Cans

“Green” Technology
& Historic Preservation

Compatible?

TEST



TEST



06/14/2007



02.17.2010









Breckenridge Guidelines

- Building-integrated photovoltaic device
- Detached solar device in rear or side yard
 - On non-historic structures or additions
 - On accessory structure
 - On primary structure
- Highly visible from the public right of way

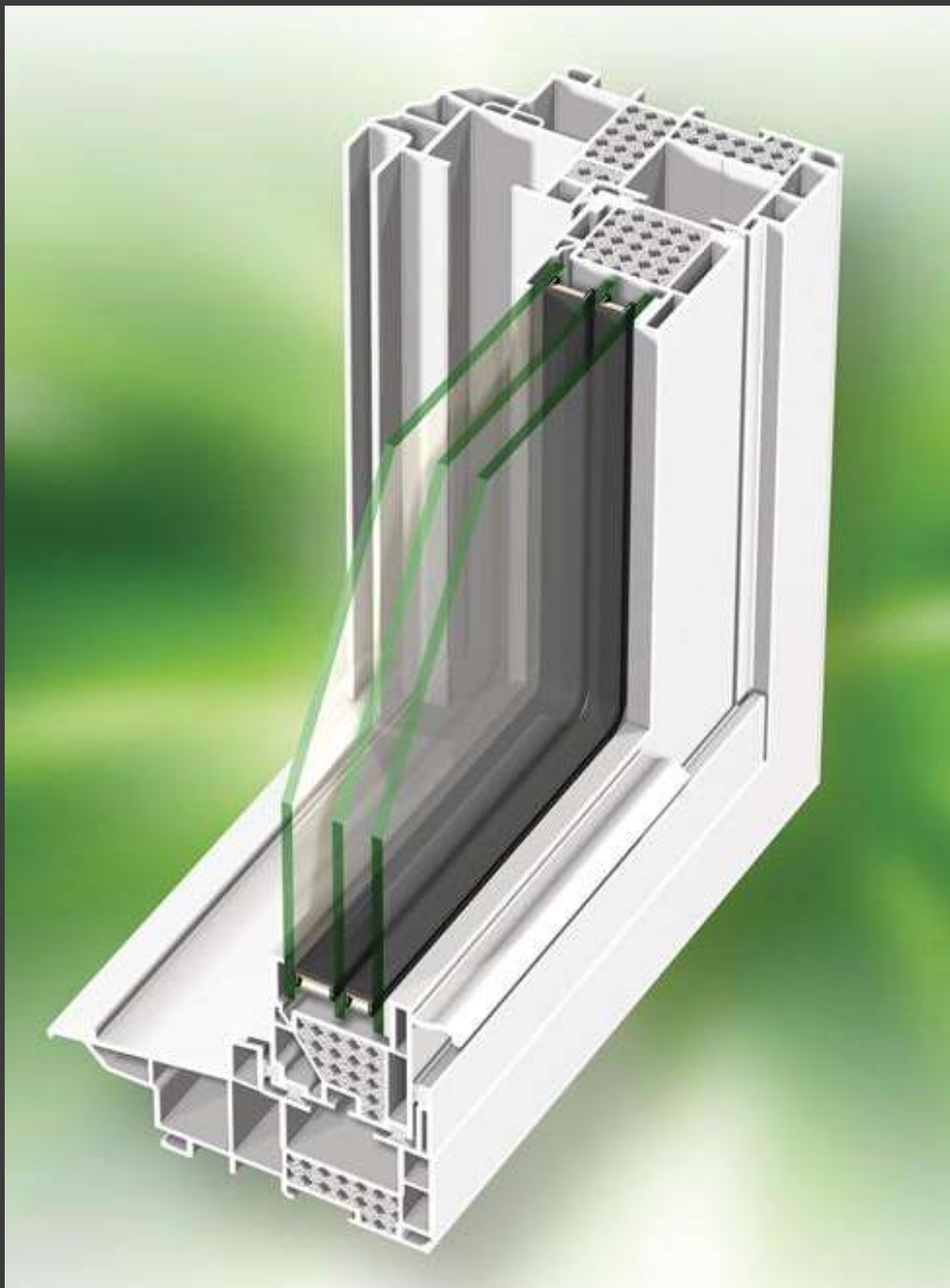
Let's Talk Windows



Can a single
pane window
meet Energy
Star standards?

YES!

But, how?





Saving Windows, Saving Money

Evaluating the Energy Performance of Window
Replacement and Retrofit

Stay Current on Available
Research and Resources!



Behavioral
Change

Maintenance IS Preservation!

Painting
Weather Sealing
Repointing
Chimneys
Gutters
Roofing
Foundation
Flashing
Landscaping
Steps and Walkways
Porches
Eaves
And More!



Case Studies:

Where

& How



Silverton School
Silverton, Colorado









Emerson School
National Trust for Historic Preservation
Denver, Colorado



Geothermal Heating & Cooling



Window Restoration



“Preserving and
reusing old buildings
is sustainable
because they are in
the right place.”

-Jim Lindberg, NTHP, Emerson Project Lead

SOCIAL & ECONOMIC Sustainability



Distinctive Communities

“...the unique characteristics of place may be the only truly defensible source of competitive advantage for communities.”

-Joseph Cortright, Leading Economic Development Authority

For every \$1 million
in State Historical
Fund grants spent on
preservation projects,
an additional \$4
million are leveraged.





Power Plants Around the World

*What does
preservation
mean to
You ?
stories*

jobs
education
memory
work
lessons
expensive
enrichment
perseverance
sustainability
character
patriotism
craftsmanship
vital
reference
identity
context
heritage/legacy
community
foundation
essential/critical
history
protection
respect
challenging
roots
sense of place