







- Expanded Polystyrene in various densities for wall and under-slab insulation
- Cellulose dense pack insulation (40 times lower embodied energy than fiberglass)
- High-density spray-in fiberglass insulation
- Mineral Wool (Rock Wool)
- Vacuum Insulation

INSULATION









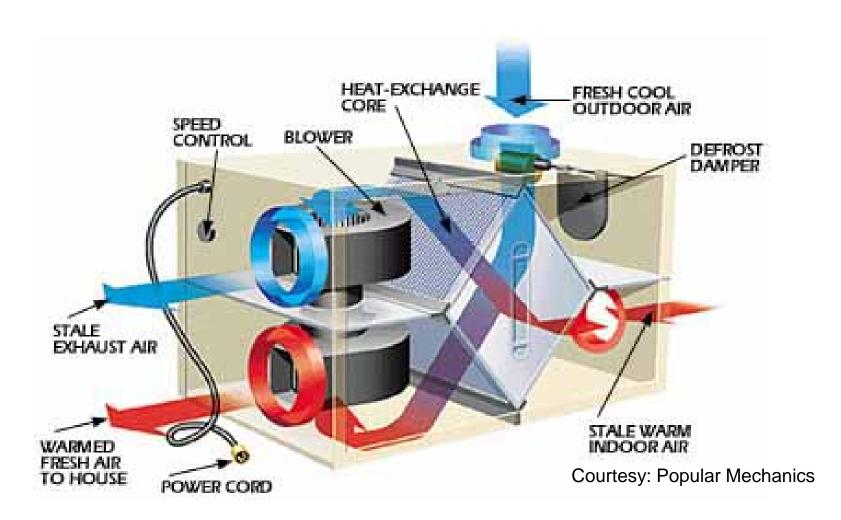


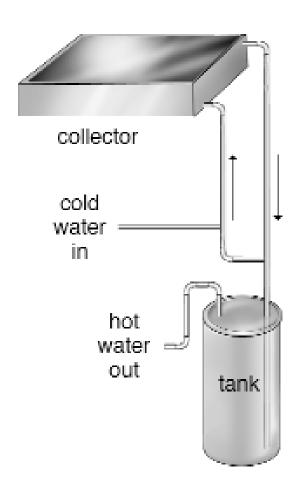






Heat recovery







Hot Water Usage

(based on national averages)

The typical U.S. homeowner's water consumption by place of use.

Wind Power

 US has more than three times as many small wind manufacturing companies as the next closest competitor, Japan.





Courtesy: http://londonist.com

The 'Dutch Windmill Tree'



Dutch company One Architecture, Ton Matton and NL Architects were commissioned by the Dutch government or a next generation windmill. The proposed mill is shaped like a tree and can hold up to 8 turbines and be as high as 120 meters! The Dutch government feels that tree shaped mills are less intrusive in the flat Dutch landscape than the mill-parks they use.

The Highway Turbine



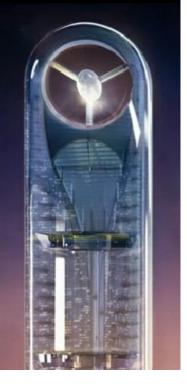




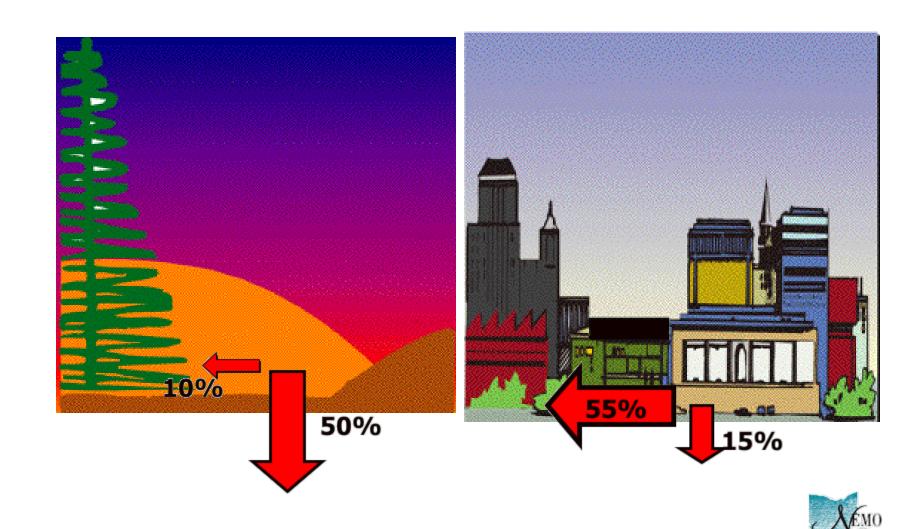






Photo courtesy of the City of Columbus Stormwater Management

Development Impacts on the Water Cycle



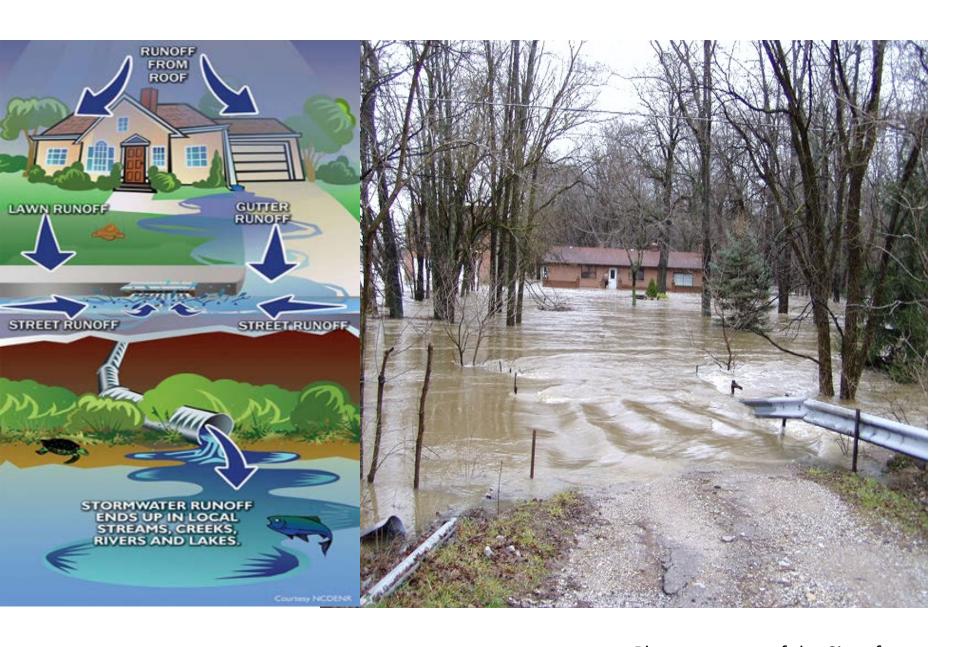


Photo courtesy of the City of Columbus Stormwater Management

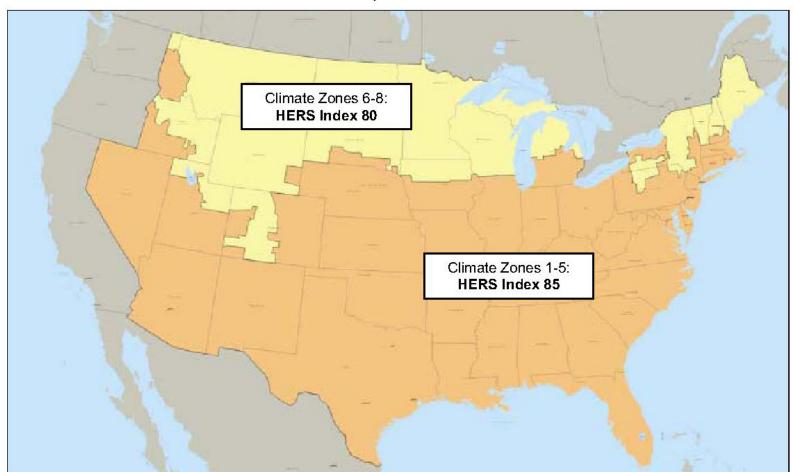


ENERGY STAR Qualified Homes National Performance Path Requirements

ENERGY STAR Performance Requirements:

To qualify as ENERGY STAR, a home must meet the minimum requirements specified below, be verified and field-tested in accordance with the RESNET Standards by a RESNET-accredited Provider, <u>and</u> meet all applicable codes.

Maximum HERS Index Required to Earn the ENERGY STAR¹



O'Neil Residence – 2010, Sonoma California – Jarrod Denton





1st fully certified Retrofit Project

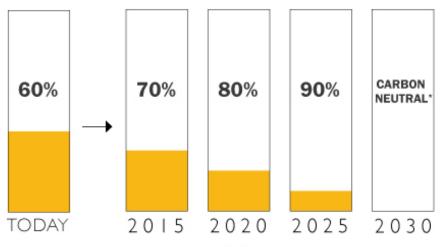


ULI 2050 Initiative: The City in 2050

Addressing:

- Exploding Populations
- Rising Energy Costs
- Increased Urban Infrastructure
- Climate Change
- Responsible use of Land

AIA's 2030 Challenge



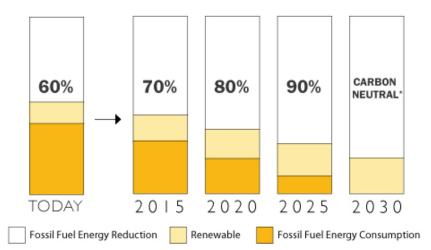
Fossil Fuel Energy Reduction

Fossil Fuel Energy Consumption

The 2030 Challenge

Source: @2010 2030, Inc. / Architecture 2030. All Rights Reserved *Using no fossil fuel GHG-emitting energy to operate.

http://www.architecture2030.org/2030_challenge/the_2030_challenge



The 2030 Challenge



we must be the change we wish to see in the world - Mahatma Gandhi

Thank You!

Contact: meera@green-bldg.com