Mark Janiczek

Immediate Past Chair, Delaware Valley
Green Building Council, Residential Circle
Chair, Friends of the Willows Cottage

Chair, Friends of the Willows Cottage (Community Preservation Initiative)

Green Advantage™ Certification, Residential

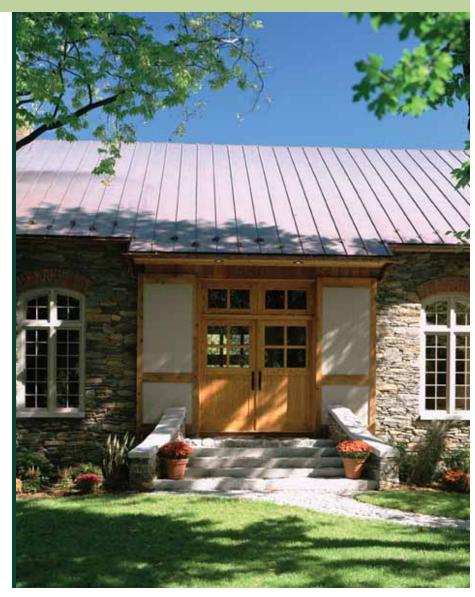
United States Green Build Council, Residential Green Build Advocate of the Tri-State Area

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Environment

- Environment
- Energy Efficiency

- Environment
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- Health

- Environment
- Energy Efficiency
- Health
- Community

- Environment
- Energy Efficiency
- Health
- Community









Water conservation

- Dual-flush toilets
- Rain barrels







- To reduce volume and stress on streams and creeks, which causes downstream flooding
- Allows water to filter naturally and directed into aquifers

Reduction of landfill waste

- Dismantling for reuse vs. demolition
- Recycling materials means less packaging waste
- Preservation of trees, shrubs etc.
 - Reduces runoff & erosion/stabilizes ground
 - Natural aspiration of rain water to atmosphere

• Air quality

- All of these points contribute to cleaner, healthier air

GREEN MATERIALS

Bamboo & Cork

- Cabinetry
- Flooring
- Ecological substitute for wood
- Rapidly renewable resource

Image: Smith&Fong Plyboo



GREEN MATERIALS

Paper Stone

- 100% recycled cardboard
- Reduces mining, trucking



Image: Paperstone Products

SALVAGED AND LOCAL MATERIALS

Recycled Hardwood Floors

- Reduces landfill waste
- Reduces use of new materials



SALVAGED AND LOCAL MATERIALS

Stone used from site

- Reduces quarrying energy
- No trucking new stone, reducing carbon emissions



SALVAGED AND LOCAL MATERIALS

Recycled and Preserved Materials From a Local Abandoned Barn

- Reduced landfill waste
- Reduced use of new lumber, saving trees



Built by Janiczek Homes

SALVAGED AND LOCAL MATERIALS

Recycled door and door surround

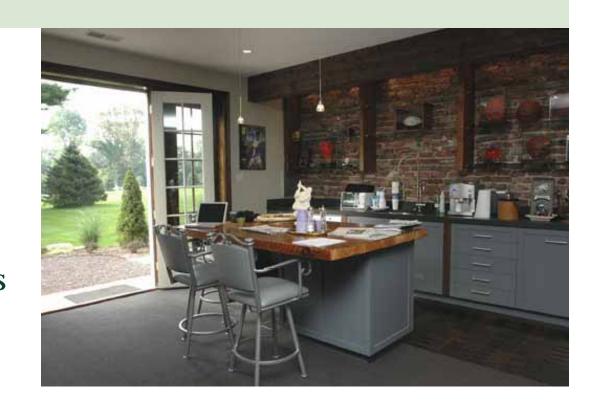


Built by Janiczek Homes



SMART MATERIALS

- Recycled floor
- Recycled cabinetry
- Reclaimed brick wall
- Concrete Countertops (utilizes fly ash)





THOROUGH AIR SEALING AND INSULATION

SIPs Panels

- Structural Insulated Panels
- Made from recycled content
- Ultimate in energy efficient wall construction







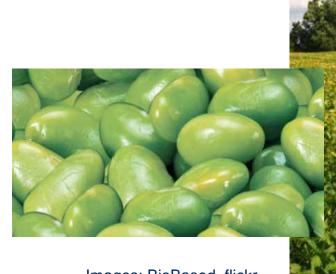
Images: murus.com

INSULATION

BioBased soy insulation







Images: BioBased, flickr

INSULATION

Denim insulation

- Recycled jeans
- Natural cotton





Images: Bonded Logic, Inc.

INSULATION

Well insulated sealed windows

- EnergyStar rated
- Low-E glass



Did You Know?

- Draw shades on the north side of your house in the winter, open them on the south side.
- Do the opposite in the summer.

ENERGY SAVING DEVICES

CFL (compact fluorescent) lightbulbs

EnergyStar appliances and fixtures

Tankless hot water heaters









Images: flickr, EnergyStar, Nortiz

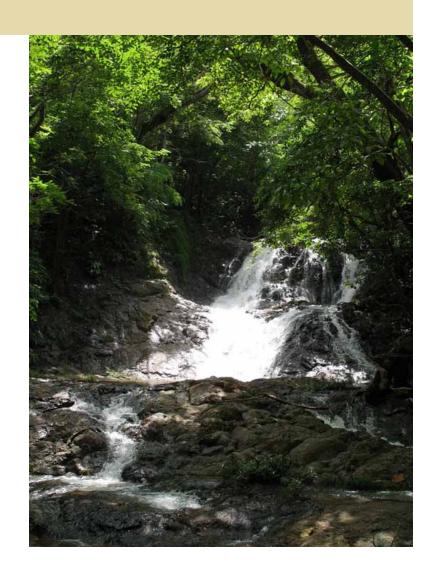
ALTERNATIVE ENERGY

Wind



ALTERNATIVE ENERGY

- Wind
- Hydropower



ALTERNATIVE ENERGY

- Wind
- Hydropower
- Geothermal



ALTERNATIVE ENERGY

- Wind
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- Solar



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ALTERNATIVE ENERGY

Geothermal Heating

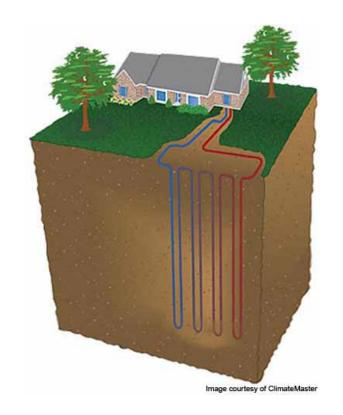




Image: greenedmonton.com

ALTERNATIVE ENERGY

Solar Panels PV (photovoltaic)

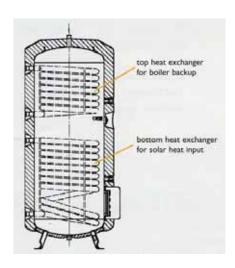


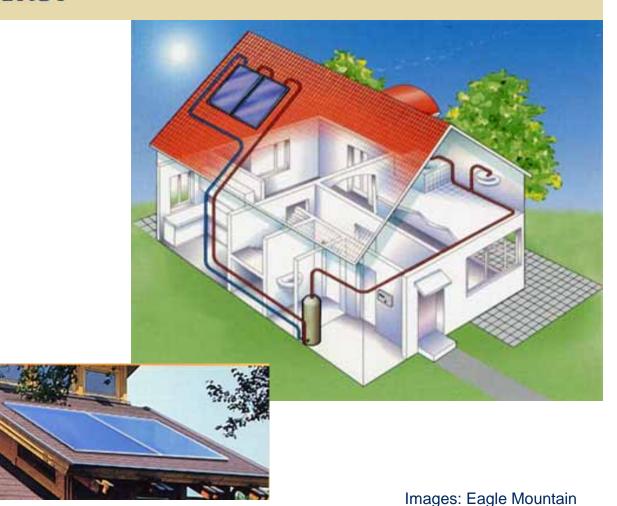


Images: flickr

ALTERNATIVE ENERGY

Solar Hot Water Heating





INTERIOR SPACES

- Low VOC (volatile organic compounds) paints, materials, adhesives
- Carpeting is recycled content or natural wool, nonformaldehyde, low VOC





Built by Janiczek Homes

Image from AFM

AIR QUALITY

- Air filtration
 - Hepa filters
- Fresh air / ventilation
 - Heat recovery ventilation systems
- Elimination of mold growth through proper water drainage
 - Exhaust fans at all bathrooms, laundry rooms, garage, closets
 - Maintain positive grades at exterior perimeter of house, shed water away from foundation

MATERIALS

American Clay & Milk Paint



Image from American Clay

MATERIALS

American Clay & Milk Paint

• Natural, organic materials



MATERIALS

American Clay & Milk Paint

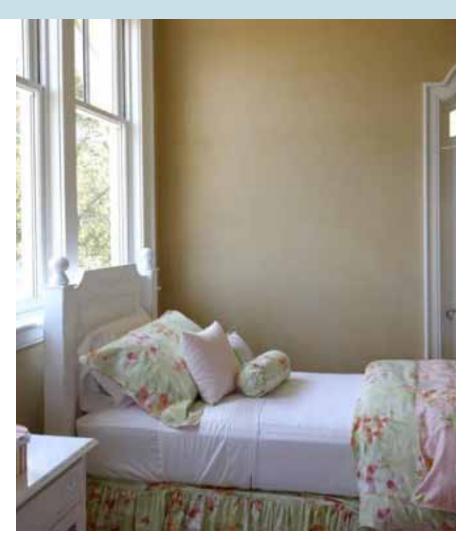
- Natural, organic materials
- No offgas, no VOCs



MATERIALS

American Clay & Milk Paint

- Natural, organic materials
- No offgas, no VOCs
- Use all natural dyes



MATERIALS

American Clay & Milk Paint

- Natural, organic materials
- No offgas, no VOCs
- Use all natural dyes
- Beautiful texture

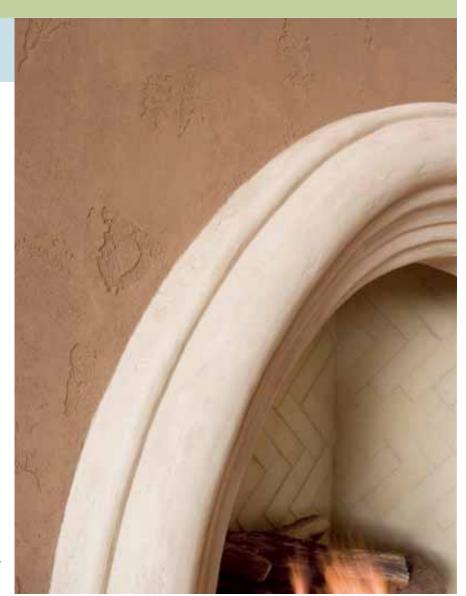


Image from American Clay

CONCLUSION

Using healthy, natural products reduces problems such as asthma, allergies, and immune disorders.

FRIENDS OF THE



WILLOWS COTTAGE

FRIENDS OF THE WILLOWS COTTAGE

Preserving historic structure

Adaptive reuse

Will be restored using green building practices



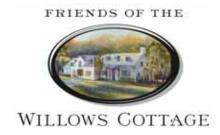


Photo: Colin Gardner

FRIENDS OF THE WILLOWS COTTAGE

The Cottage:
Base for an upcoming
Community Sustained
Agriculture project (CSA)

The Skunk Hollow Community Farm





FRIENDS OF THE WILLOWS COTTAGE

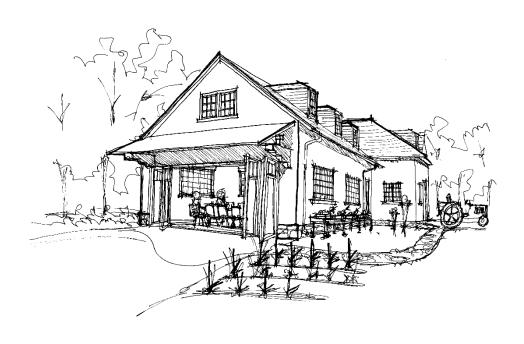
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Map: Warren Claytor Architects

FRIENDS OF THE WILLOWS COTTAGE







Renderings by John Marshall

FRIENDS OF THE WILLOWS COTTAGE

The Skunk Hollow Community Farm

Radnor's first Community farm

Coming this year









Photos: Greener Partners, flickr

BUY LOCAL!

Support local businesses





Did You Know?

Supporting Local Businesses:

- Will reduce energy consumption, Which reduces carbon emissions
- Builds social networks and relationships



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