Energy Programs: Retrofitting and Constructing More Efficient Homes & Creating a Culture of Conservation

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“Low-income households typically face the greatest energy burden. Families in these communities often live in older homes that lack adequate insulation and energy-efficient appliances. Low-income families spend more than 17 percent of their incomes on household energy, while other households spend on average just 4 percent.”

Jonathan Reckford, CEO, HFHI, 2015 Shelter Report – Less is More: Transforming Low-Income Communities through Energy Efficiency
Framing the Future

Wholesale Electricity, Natural Gas and Oil Prices

http://isonewswire.com/updates/2014/4/4/oil-inventory-was-key-in-maintaining-power-system-reliabilit.html

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Sustainable building promotes the conservation and efficiency of resources through a whole systems approach that works together to develop higher-performing homes cost effectively. Sustainable components are based on building science fundamentals that are measurable performance metrics.

Habitat for Humanity
U.S. Construction Resource
Stewardship Standard:

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FEATURES:
- Efficient insulation
- High-performance windows
- Tight building envelope and ducts

Efficient HVAC equipment
Qualified lighting and appliance

Money Isn't All You're Saving

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- Solar reflective roof sheathing
- Advanced framing practices
- 100% CFL lighting
- Programmable thermostat
- Waste reduction controls
- Potable water reduction measures
- Site stewardship erosion controls
- Waterproofing & Drainage measures
- ‘betterbuilt’ certified
- Long term exterior & interior durability measures
- Low VOC paint
- High SEER split heat pump w/fresh air ventilation system
- HVAC Manuals J, D and S performed for each house
- Indoor air quality measures Energy Star 3,0 certified
- Energy Star appliances
- Grade I insulation package
- Closed/Insulated crawl space
- Homes located close to basic resources

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St. Louis, MO

Washington, DC

River Falls, WI

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Four-Step Process for Retrofits:

1. Pre-Repair Energy Audit
2. The Work
3. Post-Repair Energy Audit
4. Homeowner Education

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Thank you!

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