

Home Energy Labeling

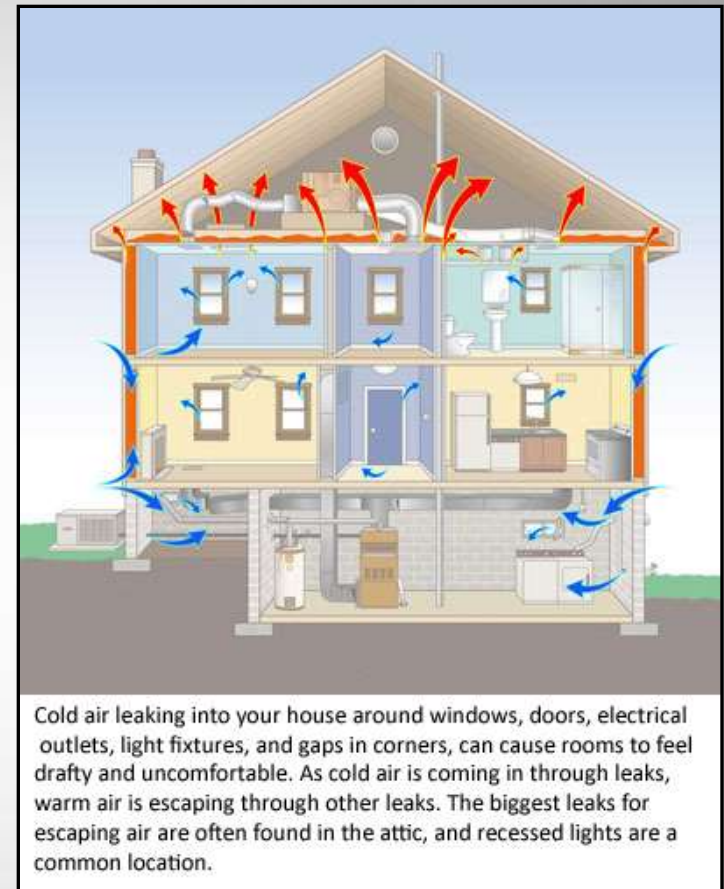


Al Christopher – Director of Energy
Virginia Department of Mines, Minerals and Energy

Pilot Project Highlights

Virginia's approach to the Pilot Project built on the initial successful efforts in Central Virginia by LEAP and expanded to other geographic areas focusing on comprehensive retrofits and deep impact savings.

- 356 home retrofits
- 28% audit-to-retrofit conversion rate
- Exceeded initial average home energy savings target of 20%





www.cafe2.org

COMMUNITY ALLIANCE FOR ENERGY EFFICIENCY (cafe²)

Community Housing Partners (CHP) recently formed the cafe² to orchestrate and facilitate the energy efficiency home retrofit project in the City of Roanoke and the Town of Blacksburg.

LOCAL ENERGY ALLIANCE PROGRAM (LEAP) Directing the transformation of the residential energy efficiency retrofit sector in Charlottesville and Arlington County in Northern Virginia.



www.leap-va.org



www.rrea-va.org

RICHMOND REGIONAL ENERGY ALLIANCE (RREA)

Fostering a market for residential energy efficiency retrofits in the Richmond metropolitan area.

Property Search: More Search Options

All of the available search fields below are optional, though at least one must be entered to perform a search.

Type

Search By Price Mortgage Payment

Price to

Subdivision

Bedrooms

List View | Map View | Gallery View | Detail View

Charlottesville (city Of) - \$418,000



Photos 1 to 5 of 30



Document



Document

View Page:



Detail Options:



Save Property



Estimate Payments



Request Information



Email Friend



Print Details



Google Earth

Changes to 701 Ridge Street under ownership of Aaron Wunsch & Jillian Galle

Exterior

- Storm windows installed
- Brickwork pointed where necessary
- Chimneys capped with stainless steel
- Roofs painted
- Gutters hung from N side of main block and 2nd floor bathroom projection
- Underground drainpipe system rebuilt (note: empties at N side of lot, under hollies; see flexible black pipe)

Interior, General

- Forced-air heating and air conditioning installed on 2nd floor
- Sealed and insulated according to LEAP standards
- Comprehensively repainted
- Holes in floors from removed pipes and electrical conduits plugged

Information

Baths	3
Baths	1
sq ft(Finished)	2,087
sq ft(Unfinished)	545

Side Entrance, Partial, Walk Out, Windows, Workshop
Ceiling Fan(s), Crown Molding

Home Performance with ENERGY STAR® Summary of Energy Improvements Performed

Home Address:
Ellen Galle & Aaron Wunsch
701 Ridge Street
Charlottesville, VA 22902

Work Performed by:
Leticia Construction

Work Verified by:
The Green Source Building Energy Center

Work Completed on:
November 23rd 2011

Home Performance Improvements:

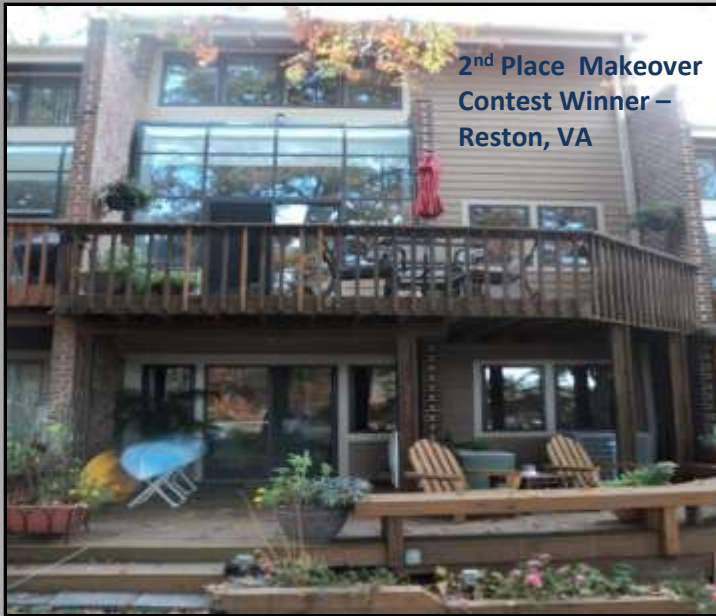
- * An energy audit was conducted. Major energy issues brought up to us were HR and demand control with wind seal.
- * An energy tune-up was performed and several energy efficiency improvements were made.
- * Storm windows were installed and some new windows added.
- * New attic insulation was added and energy inefficient materials changed out to R-38.

Home Performance Results Achieved:

The overall energy score for this ENERGY STAR certified home is 78. This score is 10% better than the average for homes of this size and age in the area. This score is 10% better than the average for homes of this size and age in the area.

Environmental Impact of Improvements:

Energy use and CO₂ emissions will be reduced from targeted levels.



Energy Improvement Measures Implemented

- Air sealed attic\added cellulose insulation
- Installed whole house fan cover and attic tent over the pull down stairs
- Air sealed laundry room
- Removed two soffit overhands & reinsulated



Energy Improvement Measures Implemented

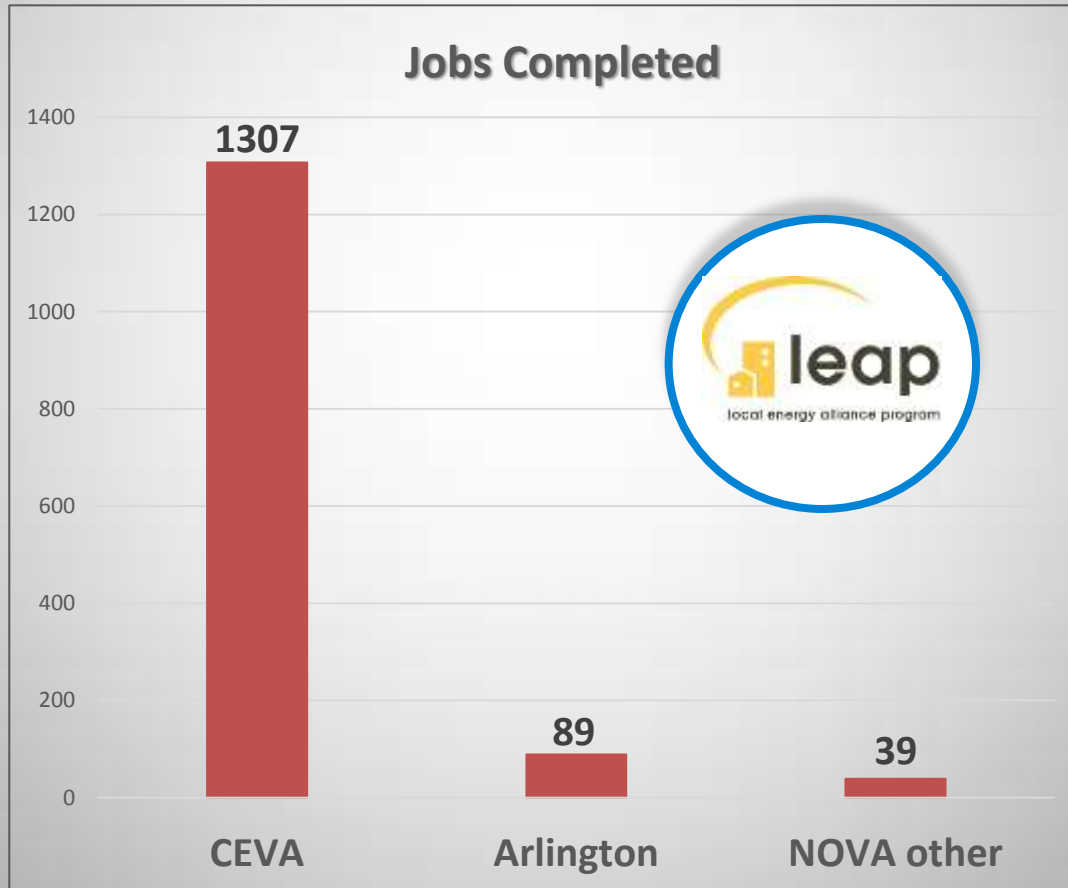
- Replaced broken heat pump, the water heater, refrigerator, lights with dimming CFL's, and the bathroom fan with timers
- Sealed attic floor and insulated to R-50 with cellulose
- Enclosed and sealed the exposure points in the attic
- Sealed ductwork in the attic
- Improved outdoor wall sealing, replaced missing insulation, and insulated



LEAP Performance BBNP+SEP

CEVA 3.6% market penetration over 3 years

(35.9K owner-occupied homes in Charlottesville and Albemarle County)





YOUR HOME ENERGY PARTNER - A non-profit helping homeowners solve high home energy bills and comfort issues

THE BANKS FAMILY
Richmond's First Home Energy Makeover Contest Winner



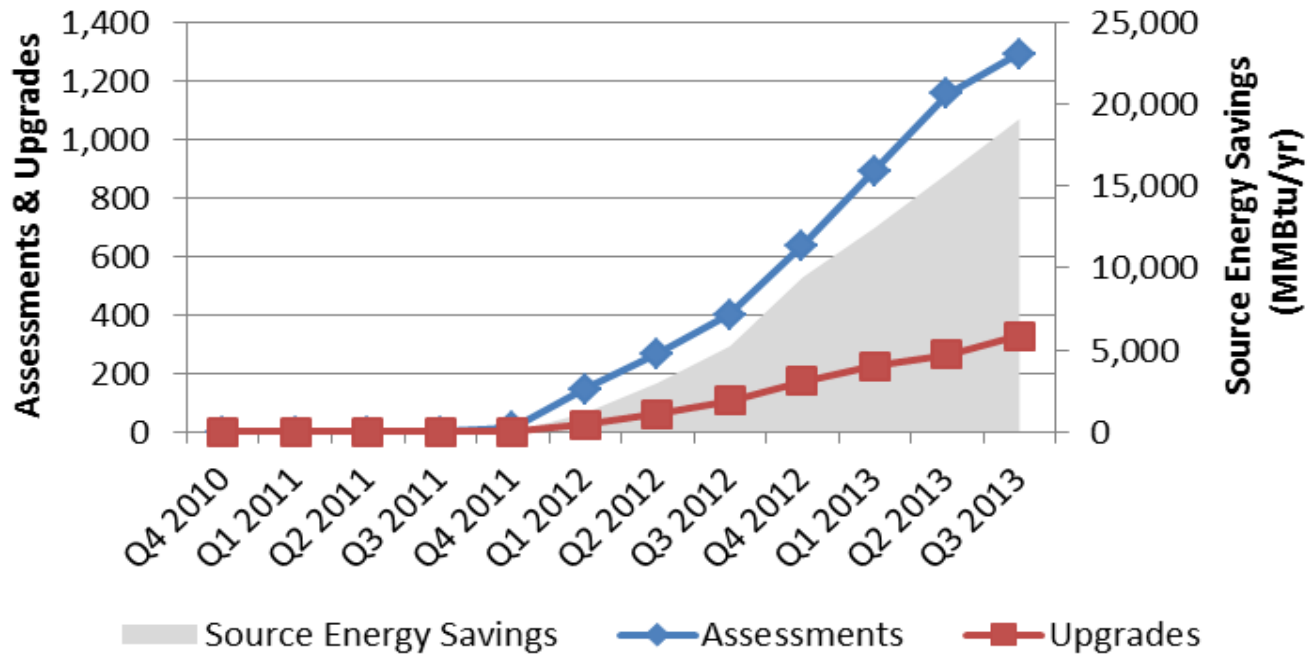
Projected Energy Savings: 59% annual
Projected Cost Savings: 52% or \$1,700 annual

HOMEOWNER QUOTE:
"My family and I are so happy to finally have some comfort in our home...and to finally see our energy bills decrease. Not having to worry about purchasing oil, we can focus on other things. It's going to help my family tremendously. I really appreciate what RREA has done for us and will be forever grateful."
- Phyllis Banks



- **12%** of retrofit customers used RREA low interest rate low product.
- **33%** of those receiving an EPS audit went on to do energy upgrade work – RREA offered a \$500 rebate.
- **320** completed audits - 101 retrofits.
- EPS Audits - **8 to 12** EPS audits a month (average cost was \$325). Once RREA provided a \$250 audit incentive then approximately **25 to 30** audits a month.
- Community outreach marketing worked better than paid advertising.
- RREA home energy makeover contest had 1,500 entries for a \$10,000 energy makeover.

VDMME, VA (SEP)



Total Audits	Residential Single-Family	Residential Multi-Family Units	Residential Multi-Family Buildings	Commercial Buildings	Industrial Buildings	Agricultural Buildings
1,292	356	0	0	0	0	0

TOTAL ENERGY SAVINGS (as of 9/30/13)				Energy Cost Savings
Electricity (kWh)	Natural Gas (therms)	Heating oil (gallons)	LPG (gallons)	
849,439	70,270	0	15,940	\$ 164,926

Avg. % Savings Per Upgrade/# of Upgrades: 22.15% / 356

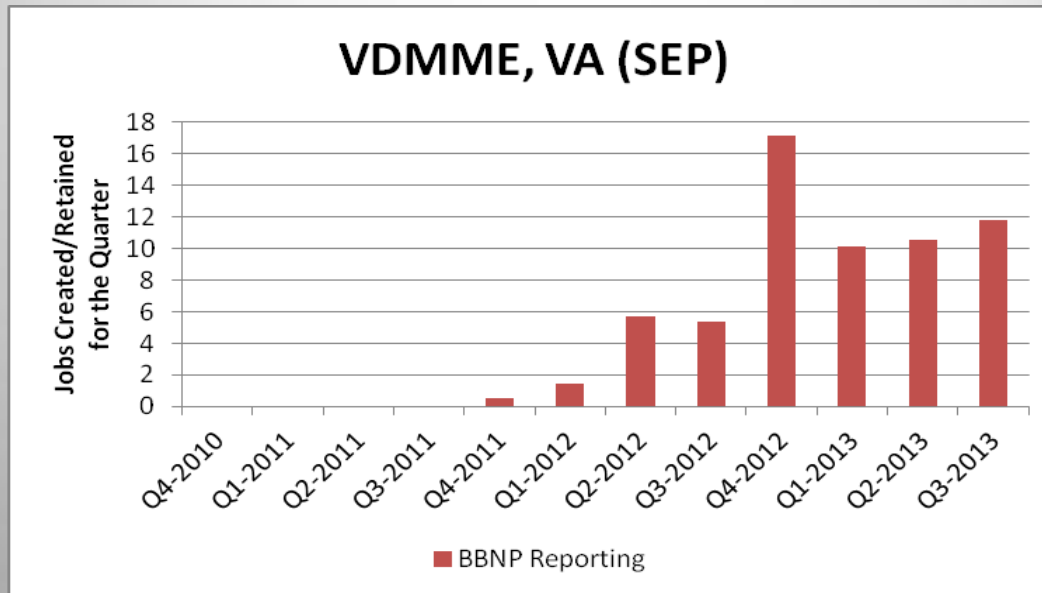
FINANCING	
Amount loaned out (Residential)	\$335,248
# of Loans (Residential)	42
Average Loan Amount (Residential)	\$7,982

Workforce Development Synopsis

The Workforce table below shows the total number of workers trained and certified reported by the grantee and the number of active participating contractors at the end of September 2013.

Workforce (32,533 hours worked)	
Number of Trained Workers	301
Number of Certified Workers	164
Active Participating Contractors (Q3-2013)	49

VDMME Jobs Created/Retained for the Quarter



Training and Quality Assurance for the Residential Market Place

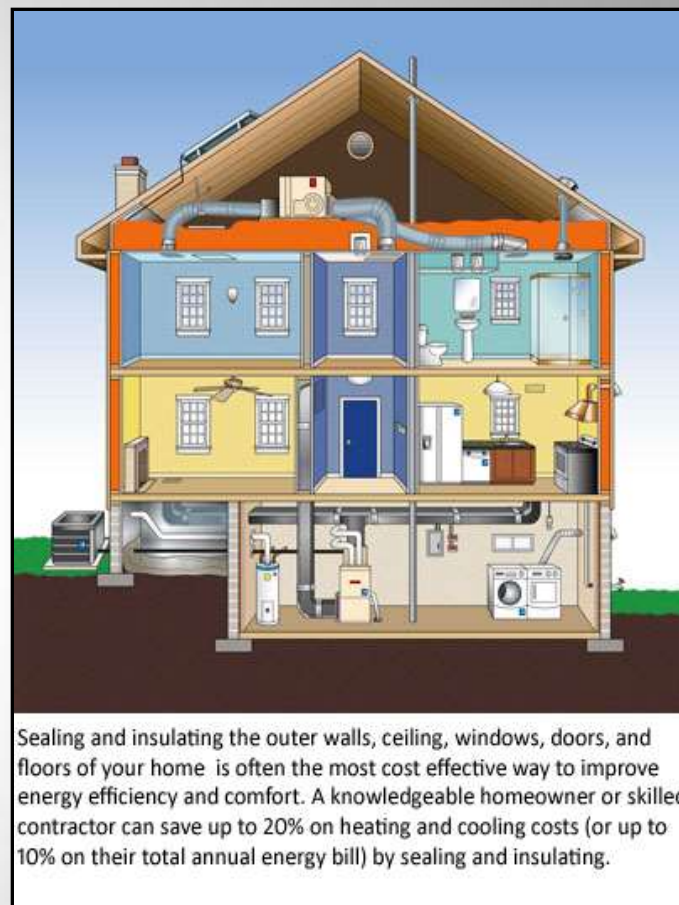
While the program provided workforce training and quality control/quality assurance processes for a network of home raters, energy auditors, contractors, remodelers and equipment installers, the programs also provided STAR (Sustainability Training for Accredited Real Estate Professionals) to appraisers and the real estate community about the features and benefits of new and existing high performance homes and the advantages of energy efficiency and energy savings.



Lessons Learned

Lessons learned have been in all of the following areas:

- Consumer awareness
- Unique homeowner outreach strategies
- Workforce training and quality assurance
- Financial incentives
- Linkages with local partner resources
- Facilitating service delivery
- Information sharing
- Policy awareness and advocacy
- Planning for ongoing operations



Thank You !!!

