



NASCSP

NATIONAL ASSOCIATION FOR STATE COMMUNITY SERVICES PROGRAMS

Connecting with Healthy Homes Projects in Your State

Green and Healthy Homes Initiative (GHHI)

Today's Webinar

- Attendees will be muted
- Please use question pane
- Materials will be sent out & available after the call

Expand Question Pane



Type question here and Send



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Today's Speakers

- Ruth Ann Norton, GHHI President & CEO
 - Wes Stewart, GHHI
 - Jamal Lewis, GHHI
 - Beth Parsons, TVA
-

Connecting with Healthy Homes Projects in Your State: Part 2

July 30, 2019

Ruth Ann Norton
President & CEO

Jamal Lewis
Policy and Technical Assistance Specialist

Wes Stewart
Vice President of Technical Assistance and Legal Services

Build Cross Sector Partners with Energy, Health and Housing - Mutual Benefits

Achieving Health and Social Equity through Housing: Understanding the Impact of Non Energy Benefits in the United States

 Green & Healthy Homes Initiative



INPUT



Comprehensive
Intervention

Energy Efficiency
Weatherization
Healthy Homes

ENERGY
OUTPUTS



- reduced kWh consumed
- reduced energy demand

NON-ENERGY
OUTPUTS



- improved air quality
- increased thermal comfort
- reduced toxins

ENERGY
BENEFITS



- improved service reliability
- reduced system maintenance needs

NON-ENERGY
BENEFITS



- environmental quality
- occupant health
- family economic security

LONG TERM
IMPACTS



- neighborhood quality improvement
- reduced health disparities
- school attendance
- economic productivity

The GHHI Solution: Address the whole home through integrated energy, health and housing interventions

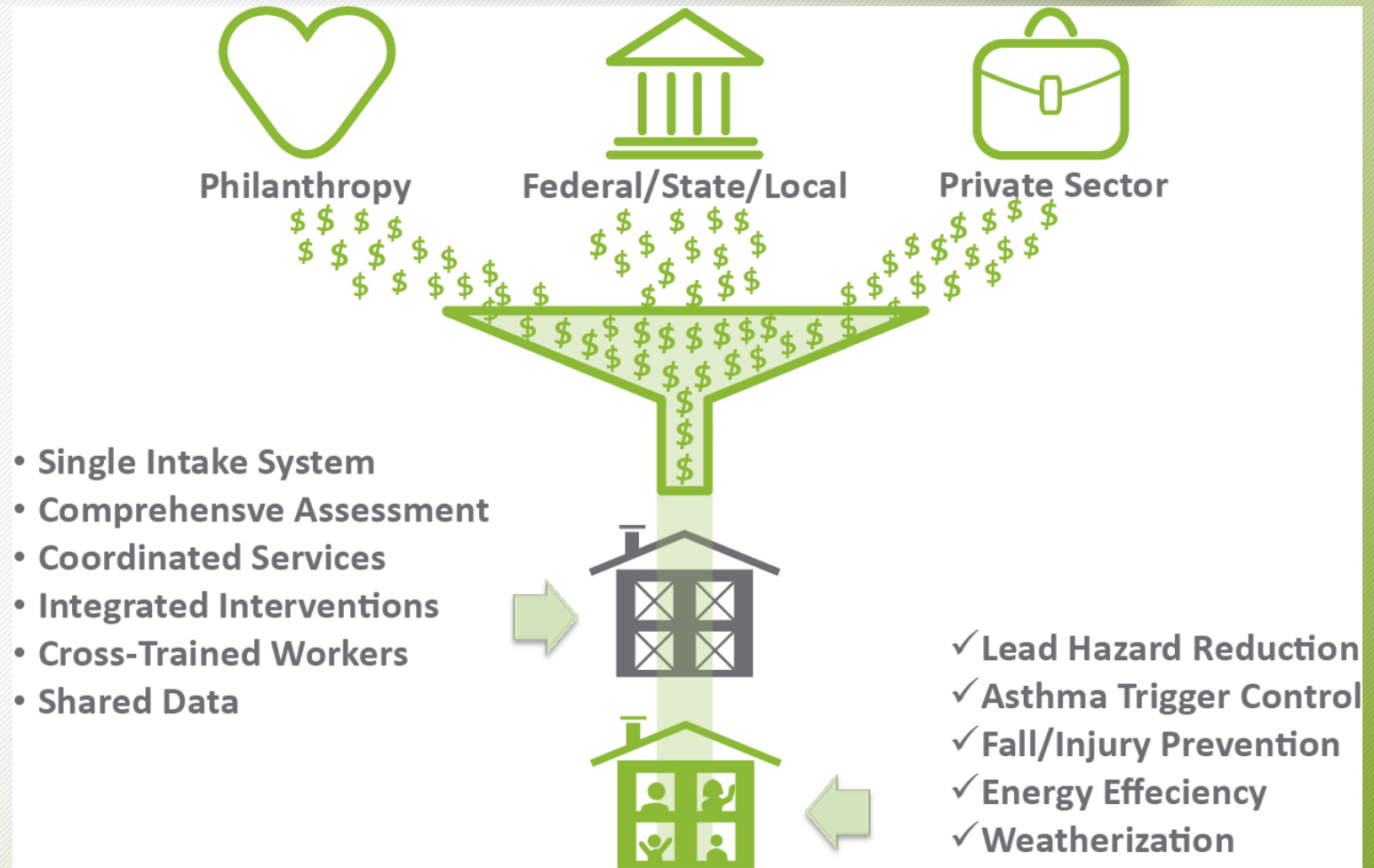
Align
services & funding



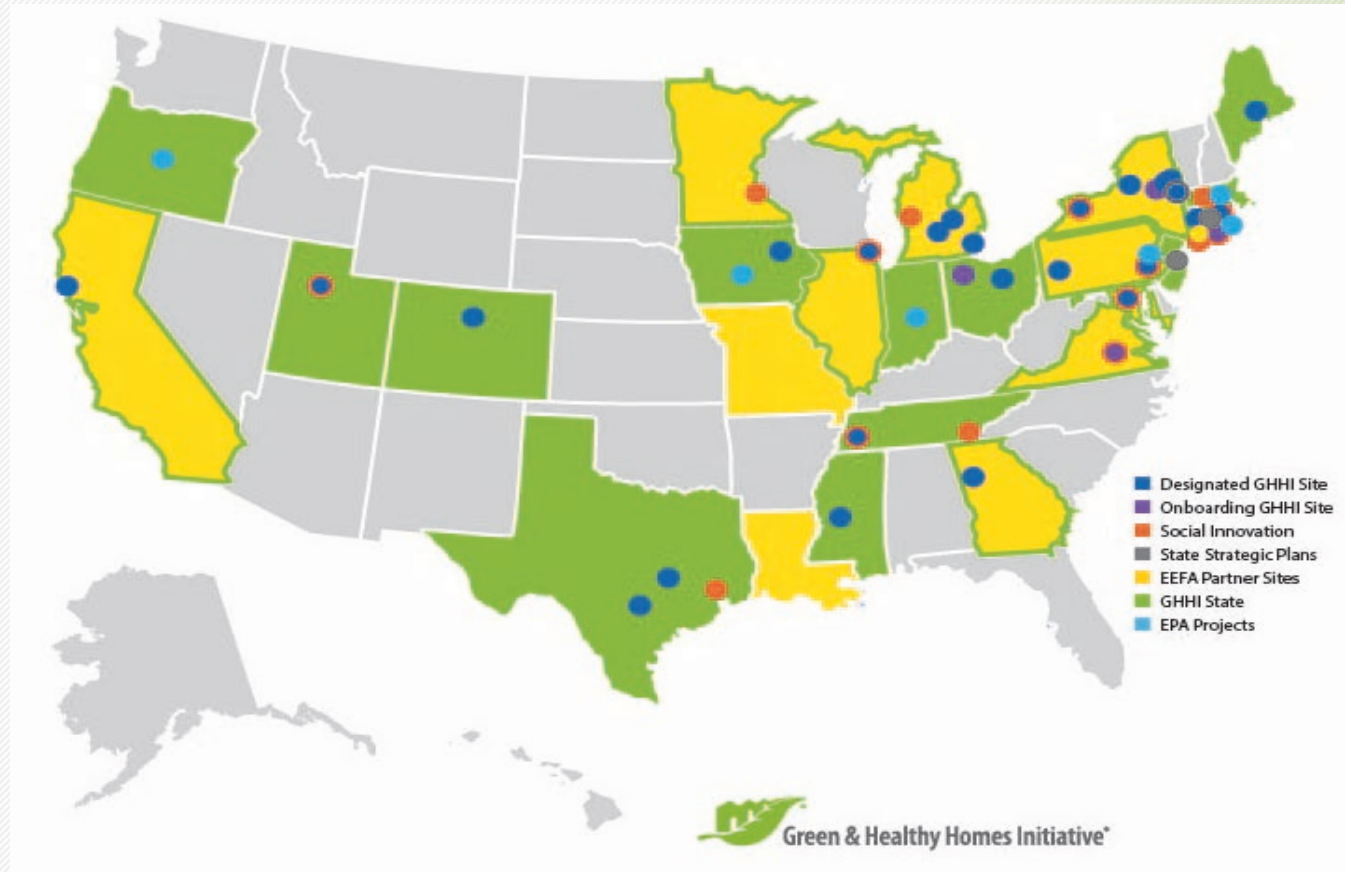
Braid
relevant resources



Coordinate
service delivery



Scaling Best Practices and Innovation: GHHI's National Work



Maryland

The Differentiator: Cross-trained teams

Environmental Health Educator

- Conduct in-home resident education
- Coordinate pre and post client health surveys
- Coordinate follow-up client services

Energy Auditor-Environmental Assessor (BPI HHE)

- Conduct pre-intervention environmental assessments
- Conduct energy audits
- Develop comprehensive scopes of work
- Conduct post-intervention quality control

Multi-Functional Contractors

- Address the hazards identified on scopes of work
- Results in increased team capacity
- Exposes opportunity for job training and economic development for residents of low-income communities



The Whole-Home Strategy: Assessors, Educators, and Crews Address Housing Issues Holistically

- Energy efficiency and weatherization
- Elimination of Lead Hazards
- Asthma Trigger Reduction
- Integrated Pest Management
- Mold and moisture remediation
- Injury prevention measures, including:
 - Carbon monoxide and smoke detectors
 - Cabinet locks and electrical outlet covers
 - Trip and fall reduction measures
- Radon, asbestos, and home-based env. hazard remediation



Successful Energy, Health and Housing Partnerships: GHHI Baltimore City Projects (BCDHCD, GHHI, Partners)

Integrated Energy Efficiency/Weatherization Funding

- DOE WAP Funds
- Maryland Energy Administration EmPowering Clean Energy Funds
- Public Service Commission Consumer Investment Funds - \$19.0M

Integrated Healthy Homes and Housing Rehab Funding

- HUD LEAP, Lead Hazard Reduction Demonstration and State Grant Funds
- HUD Healthy Homes Demonstration and Production Grant Funds - \$1.9M
- CDBG - Lead and Healthy Homes Funds - \$185,000+ annually
- Constellation Energy Funds - \$1M - Roof repair and furnace replacement (Utility)
- CSBG - Health and Safety
- State and City Housing Rehabilitation Funds
- Casey Foundation - Healthy Homes Interventions - \$50,000 annually
(Philanthropy Education Portfolio)
- Other Philanthropic Funding - Health and Safety, Cool Roofs and Case Managers

Successful Energy, Health and Housing Partnerships: Maryland

Maryland Public Service Commission Consumer Investment Funds Programs (health & energy)

- \$19.0M - MDDHCD in 7 Maryland counties

MDDHCD PSC Consumer Investment Funds

- \$15,000 - \$30,000 per unit
- Comprehensive assessment

(GHHI Comprehensive Assessment Tool adopted)

- Comprehensive intervention approach

(Weatherization/energy efficiency, lead hazard reduction, health and safety remediation, and housing rehabilitation)

- Flexible funding usage by PSC and DHCD allows for customized interventions to meet the needs of individual homes and reduces deferral rates

HUBS Baltimore Model: Housing Upgrades for Seniors - Health, Energy and Housing

1

Founding Organization

Organizes referral process, develops trainings for partners, and hosts leadership meetings



2

Leadership Team

Performs home remediation and installs fall prevention measures



3

HUBS

Provides referrals into HUBS, conducts individualized needs assessment and assists with service referral process



4

Evaluator

Currently evaluating cost savings and impact of program



Home Safety Improvements

Grab bars
Handrails



Home Rehab Services

Roof repair
Plumbing repair



Weatherization and Energy Efficiency Services

Insulation
Weather stripping
LED Installation

GHHI Baltimore

- **66%** reduction in asthma-related hospitalizations
- **62%** increase in asthma-related perfect school attendance
- **88%** increase in never missing work due to their child's asthma
- **99%** decline in childhood lead poisoning in Baltimore City

GHHI Philadelphia*

- **70%** fewer asthma-related client hospitalizations
- **76%** fewer asthma-related client ED visits

GHHI Cleveland**

- **58%** reduction in asthma-related client hospitalizations
- **63%** reduction in asthma-related client ED visits

The Strategy in Action for Cities: Baltimore and National Results

Illinois

Illinois Healthcare Wants to Address Housing

- State Health Improvement Plan
 - Develop action items to address social determinants of health and other structural issues such as housing, employment, and education
 - Prioritizes chronic health, specifically Type 2 diabetes and ischemic heart disease mortality
- Medicaid insurer requirements
 - Incented to reduce adult hospital visits from chronic diseases, like diabetes, COPD, asthma, hypertension, heart failure, and angina
 - Incented to partner with community organizations to address social determinants of health (e.g. efficiency implementers)
- Hospitals
 - Community needs assessments provide opportunity to define need for community benefit dollars

The Team



Identifies and enrolls high-utilizing asthma patients, provides asthma education and PCP connection.



Leverages expertise in energy efficiency and weatherization sectors to assess and remediate environmental triggers of asthma.



Provides comprehensive technical assistance modules, including stakeholder analysis, intervention planning, and sustainable funding options ranging from Pay For Success (PFS) financing to direct reimbursement.



Provides Illinois policy context and connections with similar efforts targeting multi-family buildings across country



Chicago Pilot Details

- **Timeframe:**
 - Phase 1: December 2017 to September 2018
 - Phase 2: March 2019 – March 2020
- **Eligibility:**
 - At least 1 ED or inpatient admit for asthma in past 12 months, uninsured, under 65 years old
- **Enrollment:**
 - Combined: 30 patients, identified through Presence Health records
- **Intervention:**
 - Home visits by community health workers
 - Supplies: HEPA vacuum/air filter, green cleaning, mattress and pillow cover
 - Home Repair: energy efficiency + health/safety measures
- **Funding:**
 - Community Benefit, ComEd Call for Ideas, philanthropy, in-kind

Case #91740

- 3 unit building
- Patient lives in basement unit
- Patient is 19 years old
- Hospitalized for asthma within the past 12 months
- Unemployed
- Lives with his father and his younger siblings



Phase 1 Case Study (Before)

Moldy drywall by bathroom, kitchen, and hallway

The Combustion Appliance Zone (CAZ) was not properly closed off



Phase 1 Case Study (After)

Moldy walls removed, new water resistant drywall installed

Door added to properly close CAZ



Identified Opportunities After Phase 1/ Reasons for Phase Two

- **EE Retrofit of the building**
 - In need of new furnace, 2 water heaters and roof cavity insulation
- **Family referred to the ComEd MF program**
 - \$10,000 in upgrades needed
 - Family can not afford the retrofit

Preliminary Results from Phase 1

- 19 out of 20 participants improved their Asthma Control Test (ACT) score
- 18 out of 20 reached a score of at least 19. (19+ =participant has “controlled” asthma)
- The average improvement was 7.11 points—a 56% improvement over average baseline ACT score
- 72% of those who responded experienced reduced interference with work and school due to asthma and a reduced reliance on their rescue inhaler

Achieving Equity Goals in Phase 2: Chicago Pilot

- **Can we identify clusters of families with both high medical and energy needs?**
 - Use Amita Health health data, target multi-family buildings
 - ComED wants to target their programs to those who need it the most, but they don't know how to reach these people
- **Can we utilize cross-trained assessors for a single health and energy assessment?**
 - Elevate assessors are or will be BPI Healthy Homes Evaluator certified
- **Can we develop a coordinated service delivery model that achieves a whole-home retrofit for ComEd customers with significant health, safety and energy needs?**
 - Leveraging both staff and financial resources of ComEd and Amita Health

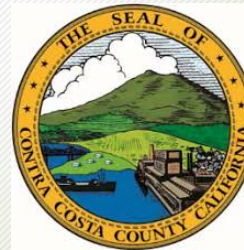
Contra Costa, California

Contra Costa

- Project Goals:
 - 1) Develop a home-based asthma program that leverages weatherization resources to assess and remove in-home asthma triggers,
 - 2) Develop business case that estimates financial value from program to healthcare entities, such as County's Health Services and Medicaid Insurance plan.



Contra Costa Health Services: County-run department that includes: Medicaid Insurance, Primary Care Network and Hospital, and public health nursing programs



Department of Conservation and Development: County department that manages weatherization program (contractors are staffed in-house) and regional



MCE: Renewable energy electricity provider (community choice aggregation) that manages energy-efficiency program offerings

Align Weatherization and Asthma-related Measures

Project can leverage a) existing energy efficiency and weatherization staff to conduct assessment and install asthma measures and b) financial resources to pay for weatherization-related measures

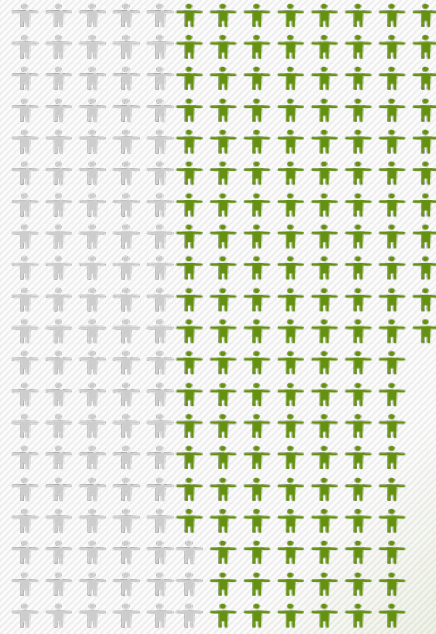
Asthma measures – highlighted in yellow are measures often covered by weatherization or EE programs

Addressing Asthma Trigger:	Consumer Supplies (can buy at store)	Home Modification Measures (need contractor)
Allergens	<ul style="list-style-type: none"> - Hypoallergenic bedding - Pet management - HEPA vacuum cleaner - Food storage containers 	<ul style="list-style-type: none"> - Mold remediation - Carpet removal/cleaning - Integrated pest mgmt. - HEPA HVAC filters
Irritants	<ul style="list-style-type: none"> - Green cleaning supplies - Solvents - Smoking behavior 	<ul style="list-style-type: none"> - Combustion testing - Electrification
Moisture	<ul style="list-style-type: none"> - Damp-rid - Dehumidifier 	<ul style="list-style-type: none"> - HVAC - Plumbing - Insulation - Roof repair - Building envelope repair

Align Weatherization and Medicaid Populations

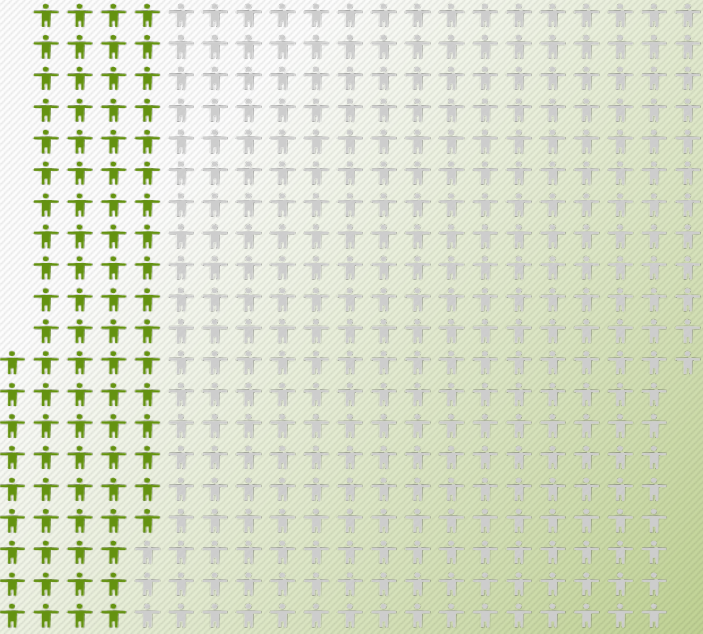
Medicaid enrollees represent 24% of all asthma ED visits, while only 18% of population. Each person symbol below represents 6.5 asthma ED visits in Contra Costa County.

Weatherization Eligibility
< 200% FPL

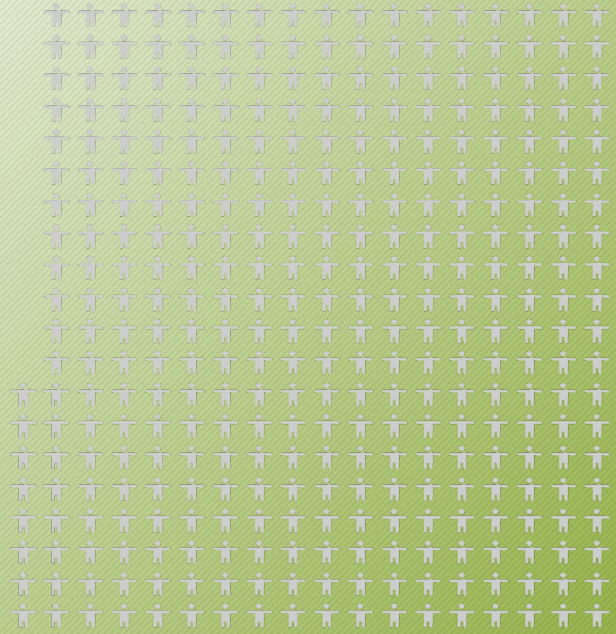


Regional Energy Efficiency Target Population (BayREN)

>200% FPL & < \$125k household income



Access to Market-Rate EE incentives
> \$125k household income



Potential Program Impacts

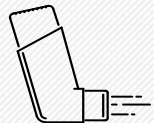


Up to \$3,500 reduction per member in total cost of care over four years compared to control

- Up to \$9,000 in savings if only target highest-risk asthma members (asthma hospitalization group)



Up to 70% reduction in asthma hospitalizations in year following enrollment relative to year prior



20-40% increase in asthma HEDIS measures (MMA, AMR):

- Based on results from similar program in Tennessee
- Achieve CCHP's EQRO benchmarks, RMC quality targets



Increased primary care provider connection for EPSDT screening and follow-up



Achieve Board of Supervisor goal of reduced asthma hospitalizations

Tennessee

Shelby County/Memphis, Tennessee

Average household nationally pays 2-3% income on energy -
In Memphis the figure for low-income households is 15-25%

Memphis has some of the lowest energy costs in the nation but one of the highest energy burdens for low-income households

Shelby County/Memphis



Memphis Pilot

- \$1m to provide home retrofits to income-qualified households through MLGW's Share the Pennies Program & TVA's Home Uplift Program



City of Memphis - WAP Program

- Funding partnership with U.S. Dept. of Energy and THDA.
- * Weatherization & Education



Share the Pennies Program

- Voluntary bill round-up program
- Provides grants for home weatherization projects for low-income MLGW customers and homeowners
- Participating customers have their utility costs rounded up to the next whole dollar, and the extra change goes toward weatherization grants
- If your utility costs were \$74.50, they would be rounded up to \$75, and 50 cents would go toward the grant program.
- 2017 - \$45K in funding
- 2019 - over \$1m in funding

Shelby County/Memphis, Tennessee



**Memphis & Shelby County
Lead-Safe Collaborative**



City of Memphis Weatherization Task Force



Chairman - Patrice Robinson, Memphis City Council
Co-Chair - Sandra Upchurch, SACE
Secretary - Sharon Hyde, GHFI Outcome Broker

Lakevia Perry - Research Analyst
Chad Bowman - Memphis WAP
Margie Borrum Smith- MLGW
Vivian Ekstrom - Office of Sustainability
Eric Brown - Friends of the Earth
Caprice Snyder - MIFA
Shana Woods - TVA
Mark Brown - MLGW
Jennifer Lewis - Habitat for Humanities




Memphis-Shelby County Office of Sustainability is the regional advocate and resource on topics such as energy efficiency, waste reduction, recycling, sustainable economic development, food systems, and green building practices. As the “green” liaisons for both city and county mayors, the office coordinates various regional initiatives related to sustainability.



SACE has worked, for over 30 years, to promote responsible energy choices that work to address the impacts of Global Climate Change and ensure clean, safe and healthy communities throughout the Southeast

Key Braiding Funding Sources

- Memphis Habitat for Humanity housing rehabilitation
- United Housing Rehab loans and grants
- TVA - Uplift Program
- City of Memphis HUD Lead Hazard Control
- City of Memphis HUD Healthy Homes Supplemental
- City of Memphis Weatherization Assistance Program
- MLGW Share the Pennies Program
- MCHiLD - Medical/Legal Partnership
- Housing Code Enforcement
- Shelby County Rehabilitation
- Shelby County HUD Lead Hazard Control
- Memphis Area Association Gov (MAAG) - Emergency Rehab
- Frayser CDC
- Le Bonheur Resident Education
- Master Home Environmentalist Program
- Service over Self (SOS)
- MIFA
- Shelby County Community Services - LIHEAP
- NHO & Red Zone Ministries



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Memphis/Shelby County GHHI Intake Form

Referring Organization: _____ Name: _____
 Email: _____ Phone: _____ Date: _____

First Name: _____ Last Name: _____
 Home Phone: _____ Cell Phone: _____
 Property Street Address: _____ Zip: _____
 Email: _____ Language Spoken: _____

Client/Family is (circle all that apply): Renter / Homeowner / Unstable Housing
 Dwelling/Property is (circle one): Single House, 1-4 units, 5+units, Mobile Home

Age of House/Property: _____

<p>Do any of these apply to ANYONE in the home?</p> <p>Senior: Yes / No Age: _____ Children under the age of 6 living in home Yes / No Children under the age of 6 visiting the home Yes / No Pregnant women in the home Yes / No Veteran Yes / No Diagnosed with asthma Yes / No Has an elevate blood lead level Yes / No Special mobility needs Yes / No</p>	<p>Is anyone enrolled in these programs?</p> <p>Medicaid/TennCare Yes / No Section 8 Yes / No Public Housing Yes / No Housing Choice Voucher Yes / No Energy Assistance Yes / No LIHEAP Yes / No Health Insurance Yes / No Other (circle): TANF EBT SNAP WIC</p>
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Total persons living in home _____	Total household income \$ _____
Total monthly rent/mortgage \$ _____	Are you current on rent/mortgage Yes / No
Have you ever been evicted Yes / No	Have you ever filed for foreclosure Yes / No
Average monthly utility bill \$ _____	Have your utilities ever been cut-off Yes / No

I, _____, authorize the referral agency listed above to disclose the information I have provided in this intake form to representatives of the GHHI Memphis Learning Network for the purpose of identifying additional services for which my family might qualify. I understand that my records are protected under state and federal confidentiality regulations and cannot be disclosed without my written consent unless otherwise provided for in the regulations. I understand that I may revoke this consent at any time and that this consent expires automatically one year from the date below. I understand that this information may be transmitted via email.

Signature(s) _____ Date _____



Extreme Energy Makeovers – Tennessee

Beth Parsons
July 30, 2019

Extreme Energy Makeovers

- TVA-funded initiative to address energy affordability needs of limited-income families in seven communities
- Targeted 25% electric energy savings at no cost to participants
- Homes \geq 20 years old
- Maximum spend of \$10.00 per square foot
- Community and participant education and outreach required



Key outcomes of EEM projects in total include:

3,476
RETROFITS

17M
KWH SAVED

17000004



Average of

36%

ENERGY SAVINGS
per home

Projected annual average of

\$492

ELECTRIC BILL SAVINGS
per household



EEM improvements made to

4.3M

SQUARE FEET
of conditioned space

average of

4

EEM MEASURES
installed per household



Our Takeaways

- Find partners early and leverage their strengths
- Get stakeholder input from the onset and continue exploring ways to engage them
- Be clear on partner roles and responsibilities
- Lead by setting the vision and direction (and then get out of the way) – inspire innovative program design with minimal requirements



Home Uplift Priority Lists – Measures

1. Health & Safety (*cannot exceed \$1,000 or 10%*)
2. Lighting
3. Air Sealing
4. Duct Sealing
5. Attic Insulation
6. Water Heater Insulation
7. HVAC Replacement or Tune-up
8. Heat Pump Water Heater
9. Wall Insulation
10. Windows & Doors
11. Refrigerator

All Electric House with Heat Pump/Electric Furnace

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