Green & Healthy Homes Initiative | Marin County

BayREN Forum: Connecting Health & Energy
June 11, 2019
The Burden of Unhealthy and Energy Inefficient Homes

- 30M families live in unhealthy homes
- Homes with environmental hazards are making their residents sick
- 14.4M missed days of school each year
  - Asthma is the top reason students miss school
- 14.2M missed days of work each year
  - Collateral burden of sick children is missed days of work for parents and caretakers
- Low income families spend 20% of monthly income on energy costs
  - VS.
  - 3.5% in other households
- $51B+ spent on asthma
- $31B+ spent on slip & fall injuries
- $43B+ spent on lead poisoning
- Over $100B in taxpayer funding is spent each year to address the impact of these hazards
A Fractured Delivery System
GHHI Background

1986
Founded as Parents Against Lead

2008
In partnership with White House, CDC, Council on Foundations, and HUD expand to GHHI. Begin providing technical support to a network of jurisdictions across the country.

2014
GHHI starts work on asthma Pay for Success (PFS) with Johns Hopkins in Baltimore

2008
In partnership with White House, CDC, Council on Foundations, and HUD expand to GHHI. Begin providing technical support to a network of jurisdictions across the country.

2015
GHHI receives EPA National Environmental Leadership Award in Asthma Management. SIF and RWJF grants expand to PFS feasibility to 11 projects nationally with health systems, MCOs, and hospitals.

Accomplishments
- 98% reduction of lead poisoning in Maryland
- 27 pieces of legislation passed
- 25 GHHI-designated sites across the country
- Over $250 million raised
- 11 Pay for Success projects across 10 states
The GHII Model: No Wrong Door

- Single Intake System
- Comprehensive Assessment
- Coordinated Services
- Integrated Interventions
- Cross-Trained Workers
- Shared Data

✓ Lead Hazard Reduction
✓ Asthma Trigger Control
✓ Fall/Injury Prevention
✓ Energy Efficiency
✓ Weatherization
✓ Housing Rehabilitation
GHHI Marin: a collaborative approach

Guided by **Theory of Change**

- Seamless access to information, incentives, and services
- More residents to utilize related programs and services
- Reduce energy/water consumption, waste generation, and greenhouse gas emissions
- Enable more residents to experience improved health and safety within their home
Serving:
• Low income residents (up to 80% AMI, HUD)
• Single family, multi family, mobile homes and floating homes
• Owners and renters

Funding:
• Leveraging partner programs and resources
• MCF grant funding
  • $5,000 per single family unit
  • $2,250 per multifamily unit
### Current model:

<table>
<thead>
<tr>
<th>MULTIFAMILY</th>
<th>SINGLE FAMILY</th>
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<tbody>
<tr>
<td><img src="image1" alt="MCE Logo" /></td>
<td><img src="image2" alt="Central Coast Energy Services Logo" /></td>
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</table>
| - Comprehensive GHGI assessment  
  - Comprehensive SOW  
  - Pipeline project management  
  - Partner referrals | - Comprehensive GHGI assessment  
  - Comprehensive SOW  
  - Pipeline project management  
  - Partner referrals |

[Other logos are present but not included in the summary.]
Lessons learned:

• **Partner buy in and support**
  • Project management is key for appropriate timelines and service coordination
  • Data sharing requires systems build out and can be slow moving
  • Coordinated vs. comprehensive approach: program resources and capacity are unknown
  • Residents trust in programs and willingness to share information
  • Flexible funding is a must!
  • Education and training is needed for all parties
Sir Francis Drake Boulevard:

- Fairfax, Marin County
- 4 Section 8 Units
- 2 senior tenants
- 2 tenants with special needs
- Home rehab, energy efficiency, safety and accessibility work needed
<table>
<thead>
<tr>
<th>Resource Conservation/Energy Efficiency (Green)</th>
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<tbody>
<tr>
<td>• Replace windows</td>
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<tr>
<td>• Install crawlspace and roof insulation</td>
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<tr>
<td>• Install tankless water heater</td>
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<tr>
<td>• Direct install measures: LED lighting, faucet and shower aerators</td>
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<table>
<thead>
<tr>
<th>Accessibility, Health, and Safety (Healthy)</th>
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<tbody>
<tr>
<td>• Pest remediation</td>
</tr>
<tr>
<td>• Security lighting</td>
</tr>
<tr>
<td>• Bathroom ventilation</td>
</tr>
<tr>
<td>• Tree work</td>
</tr>
<tr>
<td>• Deck repair</td>
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<tr>
<td>• Fencing and gate repair</td>
</tr>
<tr>
<td>• Carport repair</td>
</tr>
<tr>
<td>• Bathroom ADA</td>
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<tr>
<td>• Handrails ADA</td>
</tr>
</tbody>
</table>

- Increased comfort
- Removed trip and fall hazards
- Increased accessibility
- Lowered utility bills (projected)
- Saving 2,271 Therms per year (projected)
- Increased indoor air quality
Marin Villa:

Canal, Marin County

12 low income units

Home rehab, energy efficiency and safety and work needed
**Program Resources**

- $600 Multifamily Energy Savings Program
- $14,400 Low Income Families and Tenants (LIFT) Program
- $13,228 Low Income Solar
- $27,000 GHHI Marin

**Green and Healthy Measures**

- Electrical panel upgrades
- Structural upgrades (dry rot)
- CO monitors
- T24 compliant windows
- LED light bulbs
- Low flow faucets
- 32.26 kW solar system (49,598 kWh annual production)

**Increased comfort**

**Removed fire hazard**

**Increased structural safety**

**Lowered utility bills**

**Saving 3,386.5 kWh per year (projected)**

**Increased indoor air quality**
Haverhill Court:

- **Location**: Novato, Marin County
- **Type**: Single family home
- **Residents**: 2 senior residents, 1 uses a wheelchair, one uses a walker, both have respiratory health needs
- **Work Needed**: Home rehab, energy efficiency, safety and accessibility work needed
### Program Resources

- Marin County LIHEAP (CCES)
- Bob Roberts Client Assistance Program (MCIL)
- GHHI Marin
- Wood Smoke Program (County of Marin CDA)*

### Green and Healthy Measures

- ADA accessible bathroom*
- Removal and replacement of wood burning fireplace*
- Weatherstripping
- LED light bulbs
- Low flow faucets
- Smoke alarm

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Increased comfort

Improved accessibility

Lowered utility bills (projected)

Increased indoor air quality
Thank You

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Focus areas:

- Reduced use of natural resources
- Sustained independence within the home
- Increased safety within the home
- Decreased waste generation

Resource Conservation

- Improved health outcomes
- Increase in local workers trained in green and healthy home practices
- Reduced greenhouse gas emissions & energy costs

Independent Living

Home Rehabilitation