



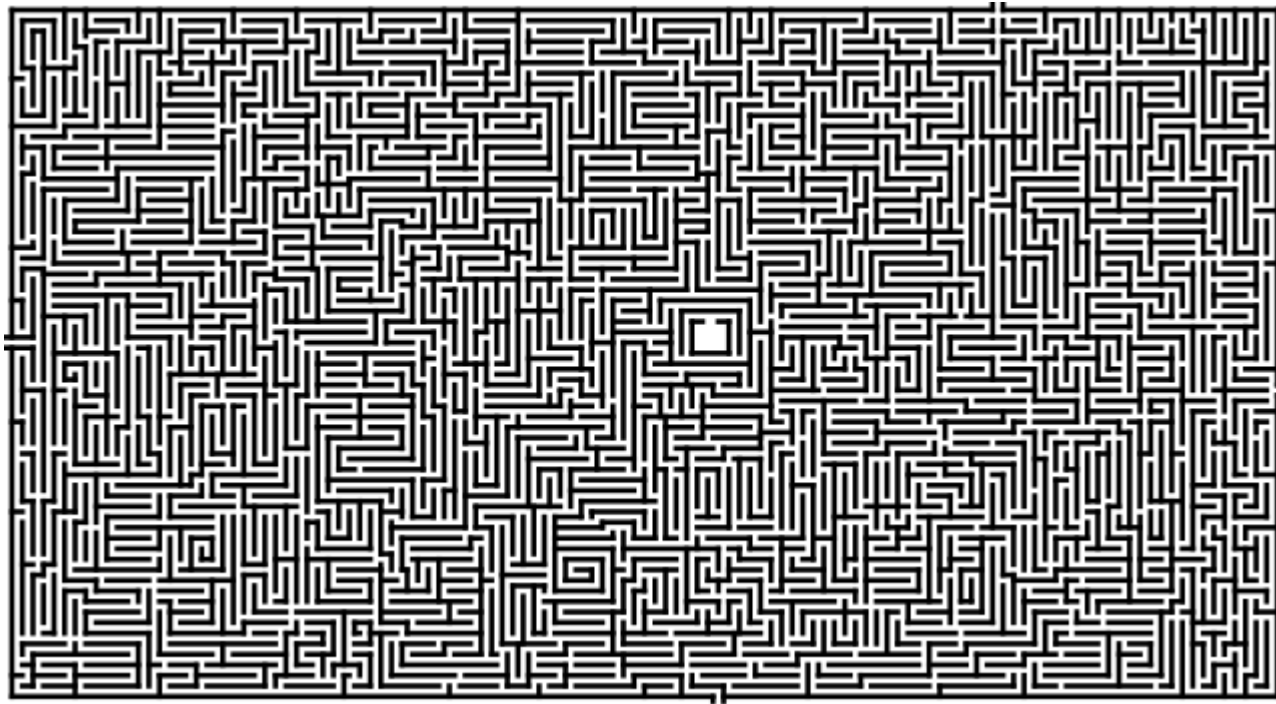
Department of Commerce
Innovation is in our nature.

Weatherizing Homes with BPA funds: A State Perspective

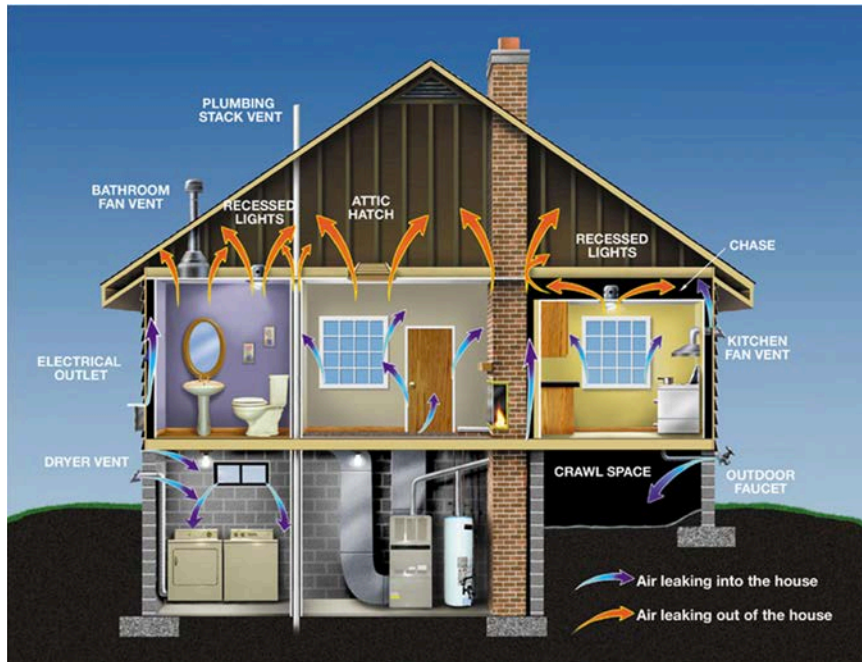
Michael Furze, Policy + Contracts Section Manager

11/18/2014

Weatherization is Complex...



What is Weatherization?



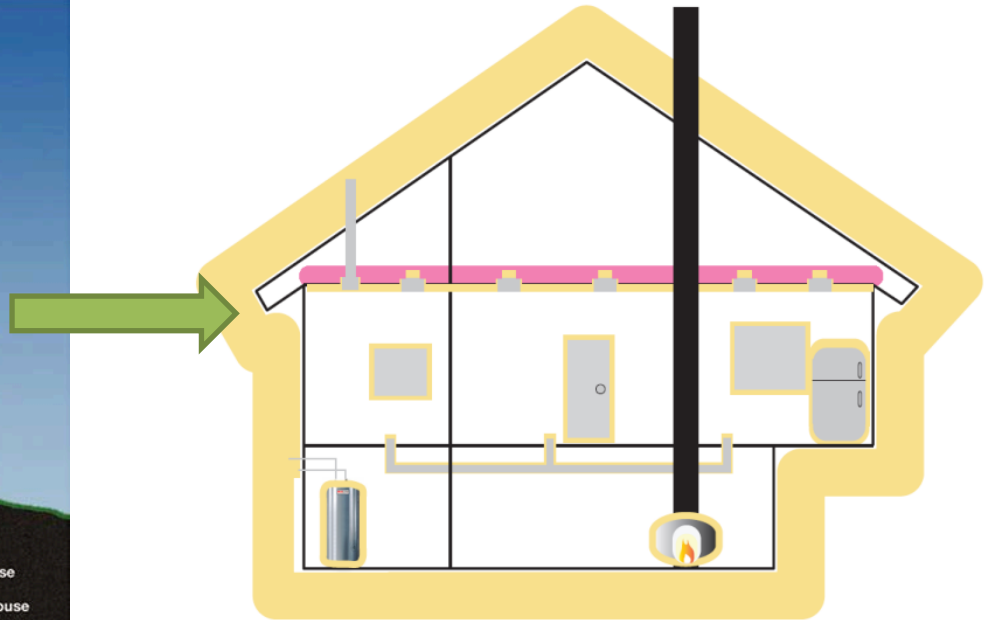
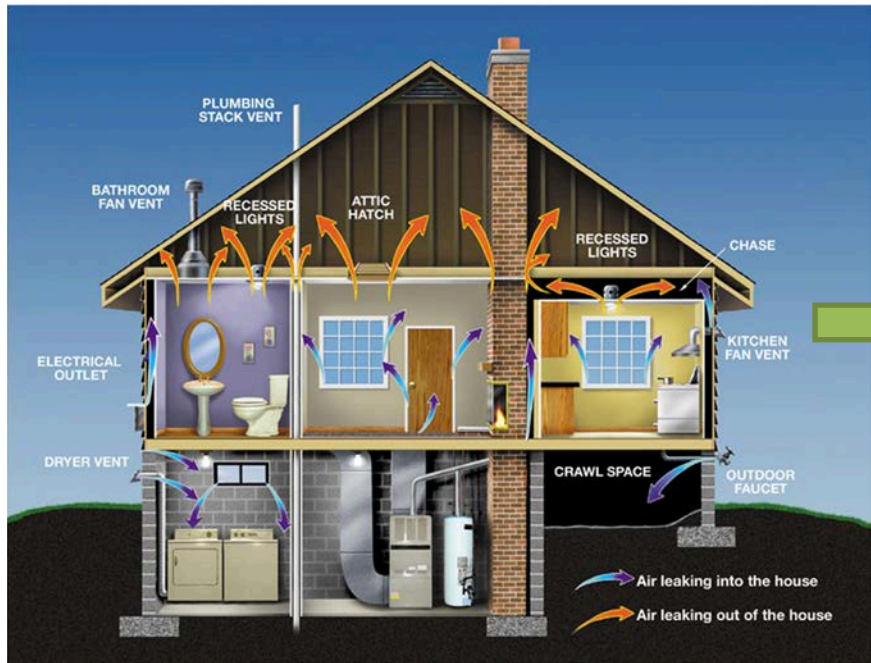
Weatherization is a low-income energy efficiency program based on the U.S. Department of Energy's (DOE) Weatherization Assistance Program.

The Program reduces energy costs for low-income households by increasing the energy efficiency of their homes, while ensuring their health and safety.

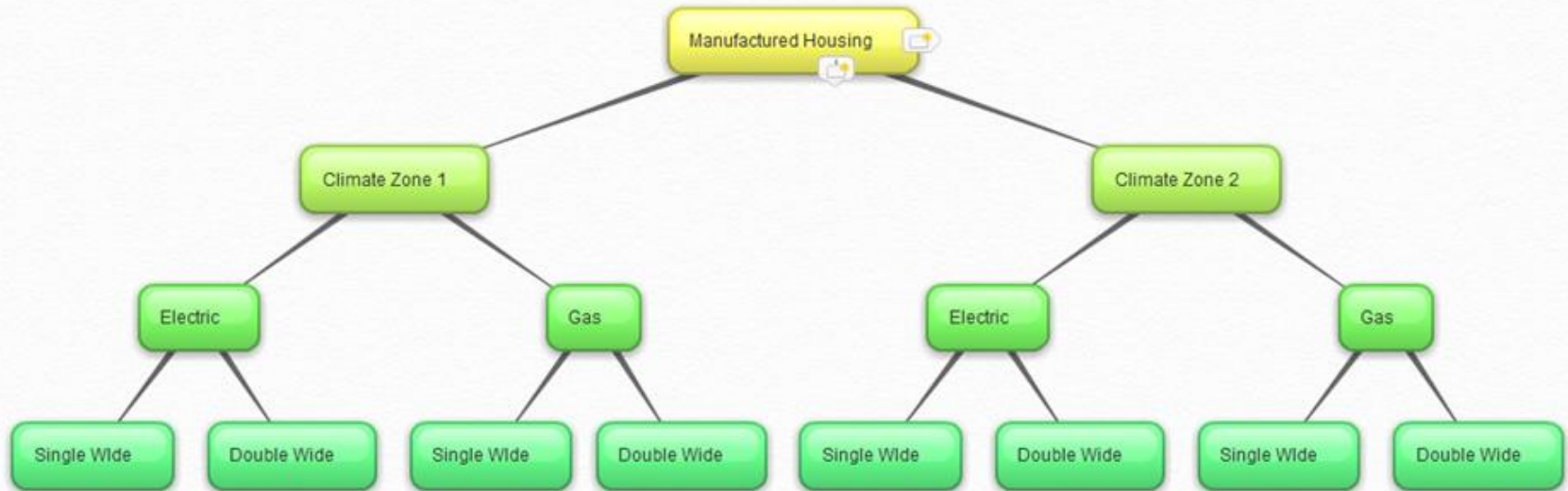


What is Weatherization?

The Program provides energy-efficiency services to more than 4,000 homes every year, reducing average annual energy costs by approximately \$300.

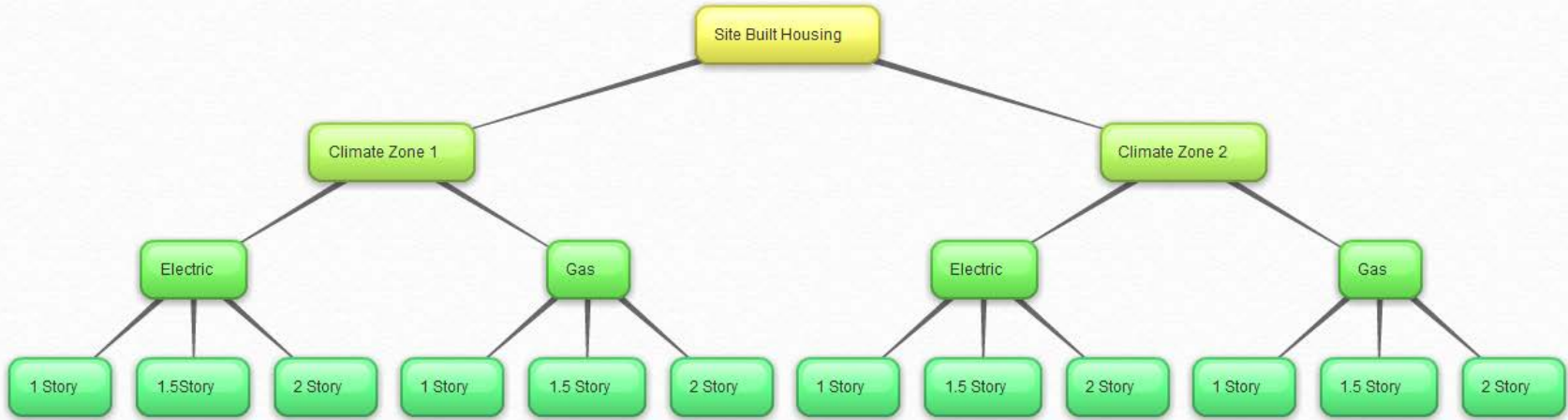


Draft Priority List



1. Identify the building type
2. Determine the Priority List applicable to the Climate Zone
3. Establish the primary heating fuel
4. Select the applicable building typology Local
5. Install appropriate measures in order of cost effectiveness

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Draft Priority List Example

Climate Zone 1, Electric, 1 Story Site Built Home

1.	Showerhead	8.24
2.	Attic: Add R-38 (R-0 -> R-38)	8.22
3.	Attic: Add R-49 (R-0 -> R-49)	7.91
4.	Faucet Aerator	4.55
5.	Duct: Add R-11	3.85
6.	Duct: Add R-19	3.6
7.	Wall: No insulation - fill w/R-13	3.19
8.	Attic: Add R-30 (R-8 -> R-38)	1.92
9.	Hot Water Pipe Insulation	1.72
10.	Water Heater Insulation Wrap	1.63
11.	Floor: Add R-30 (R-0 -> R-30)	1.5
12.	Attic: Add R-38 (R-11 -> R-49)	1.39
13.	CFL Bulbs	1.31
14.	Priority Air Sealing	1.27
15.	Wall: 40% gaps and voids- fill w/R-13	1.12
16.	Attic: Add R-19 (R-19 -> R-38)	1.08
17.	Duct Sealing 50% Improvement	1.02



What is the Program Structure?



Program Structure

- Funder (e.g., BPA)
- Commerce
- Local Agencies



Weatherization Funders

BONNEVILLE
POWER ADMINISTRATION



PUGET
SOUND
ENERGY

AVISTA®



SNOHOMISH COUNTY
PUD
PUBLIC UTILITY DISTRICT NO. 1

State Funders



Utility Funders



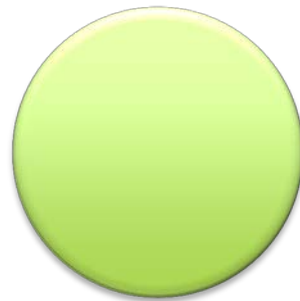
Utility Funding Partners

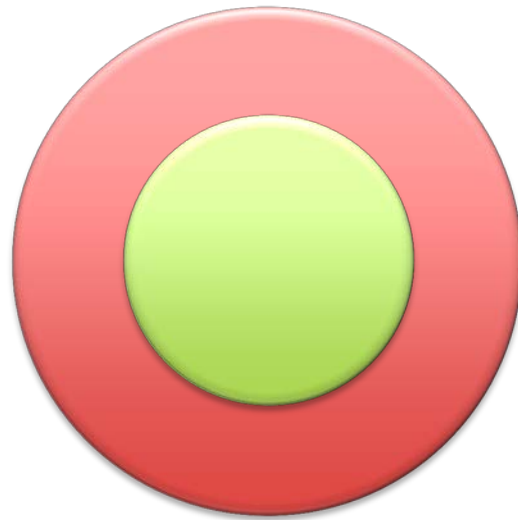
Source of Resource	Value	Geographical Area Served
Puget Sound Energy	\$2,291,607.76	Lewis, Mason, Thurston, Kitsap, Island, San Juan, Whatcom, Skagit, Clallam, Jefferson, and King Counties and City of Tacoma
Avista	\$1,782,764.72	Whitman, Grant, Spokane, Lincoln, Ferry, Asotin, Stevens, Pend Oreille & Adams Counties
Owners Contribution	\$764,991.00	Whitman County, Klickitat, Skamania, Spokane, Whatcom, Island, San Juan Counties, Yakima, Cowlitz, Wahkiakum, King, and Clark County
Pacificorp/Pacific Power & Light	\$550,111.73	Yakima, Adams, and Grant Counties
Clark Public Utilities	\$495,326.66	Clark County
Cowlitz PUD	\$411,911.19	Cowlitz and Wahkiakum Counties
Tacoma Power	\$341,264.79	Pierce County
Community Development Block Grant City	\$225,999.60	Kitsap County
City of Ellensburg	\$112,666.58	Kittitas County
Northwest Natural	\$68,777.92	Clark County
Community Development Block Grant County	\$60,785.69	Kitsap County
Benton PUD	\$49,867.03	Benton and Franklin Counties
Cascade Natural Gas	\$38,503.63	Whatcom, Island, Benton, Franklin, and San Juan Counties
Kittitas County PUD	\$20,900.86	Kittitas County
Low-Income Loans	\$17,334.36	Whitman County

What is Commerce's Role?



Add funding, add concepts





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B O N N E V I L L E
P O W E R A D M I N I S T R A T I O N



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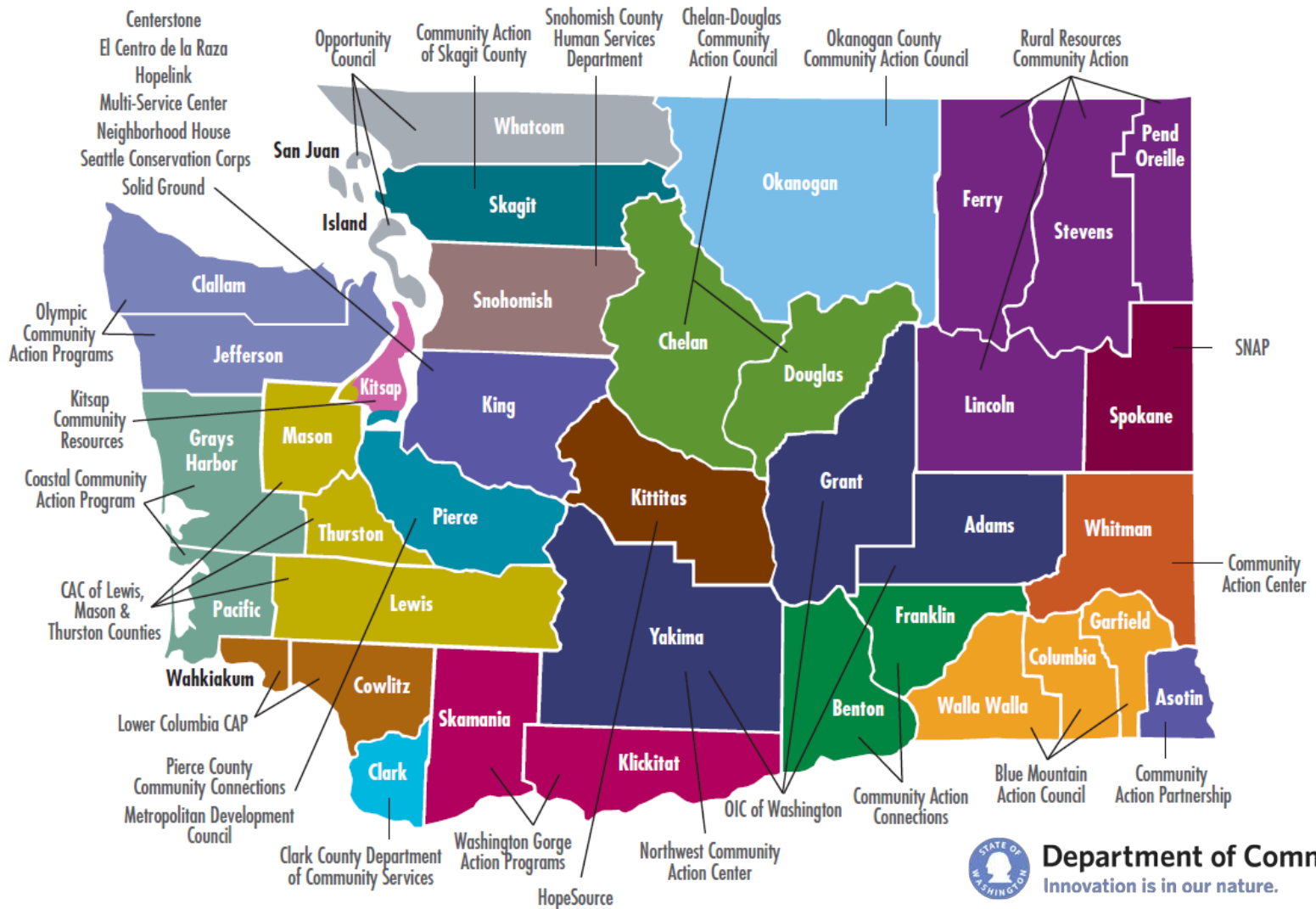


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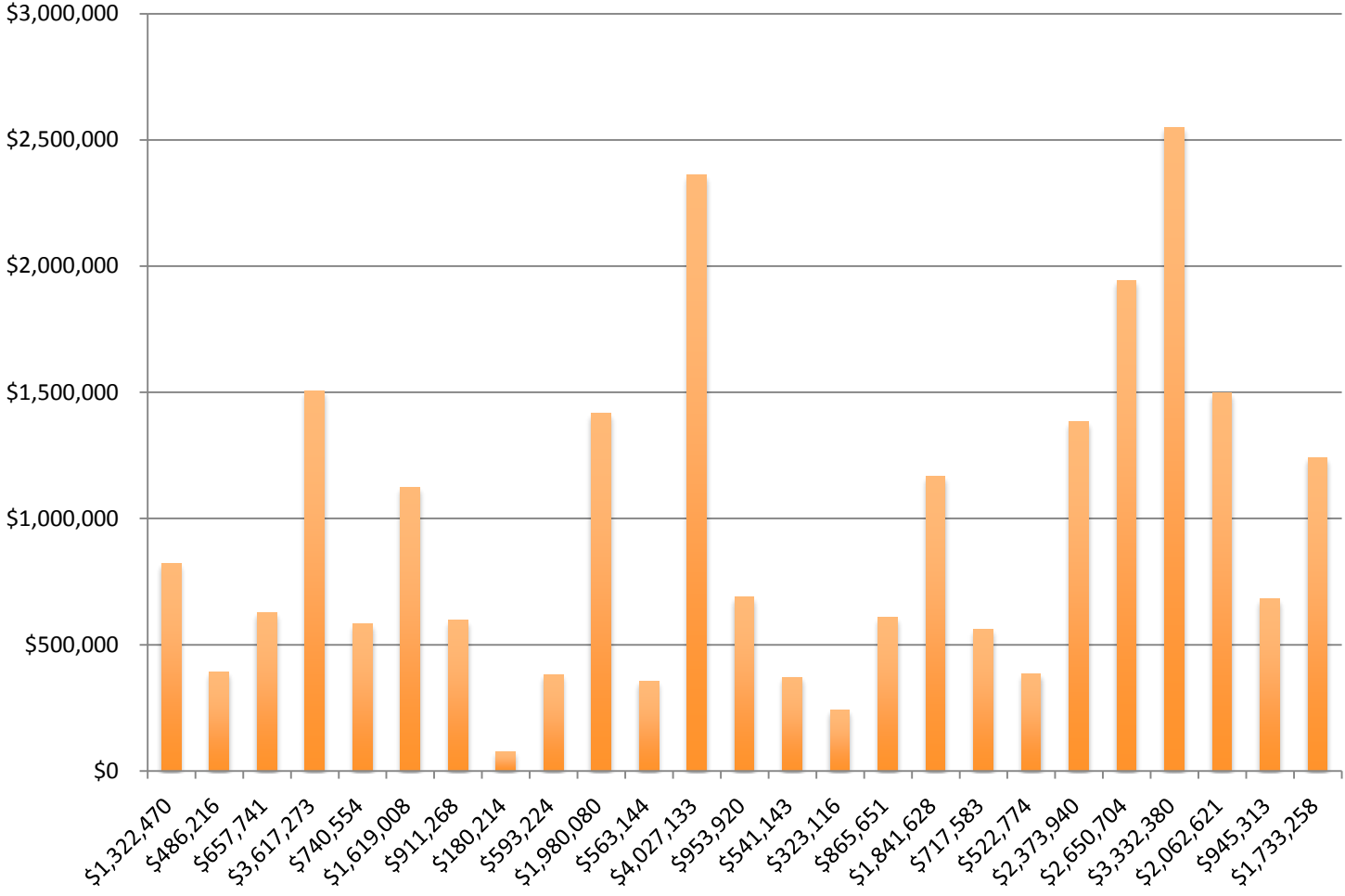


Local Service Partners



How is Funding Allocated?

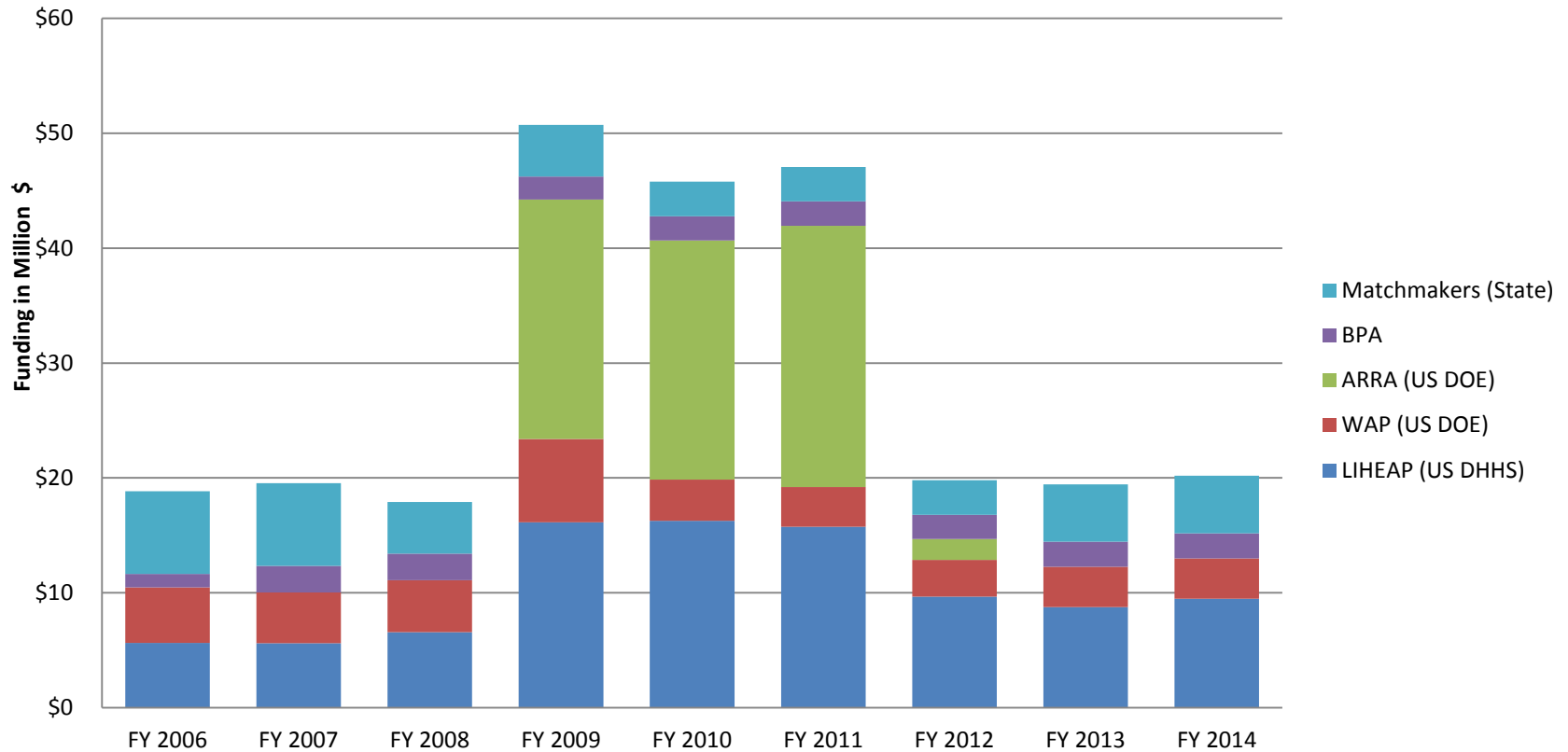
Weatherization Allocation



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360-725-2962

Funding Trends

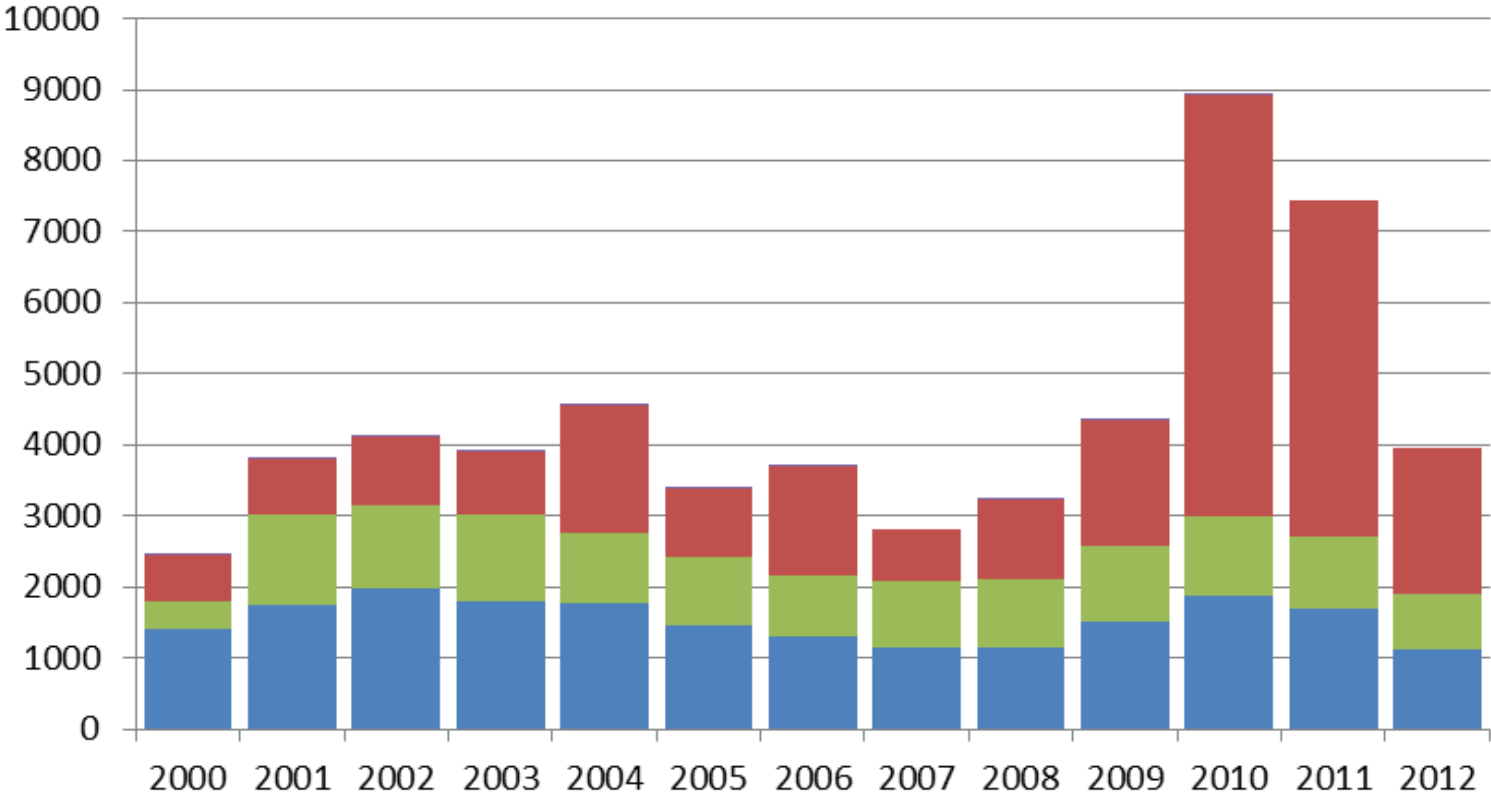
WA Low-Income Weatherization Program
Annual Program Budget in million \$ by Fund Source



Production Trends

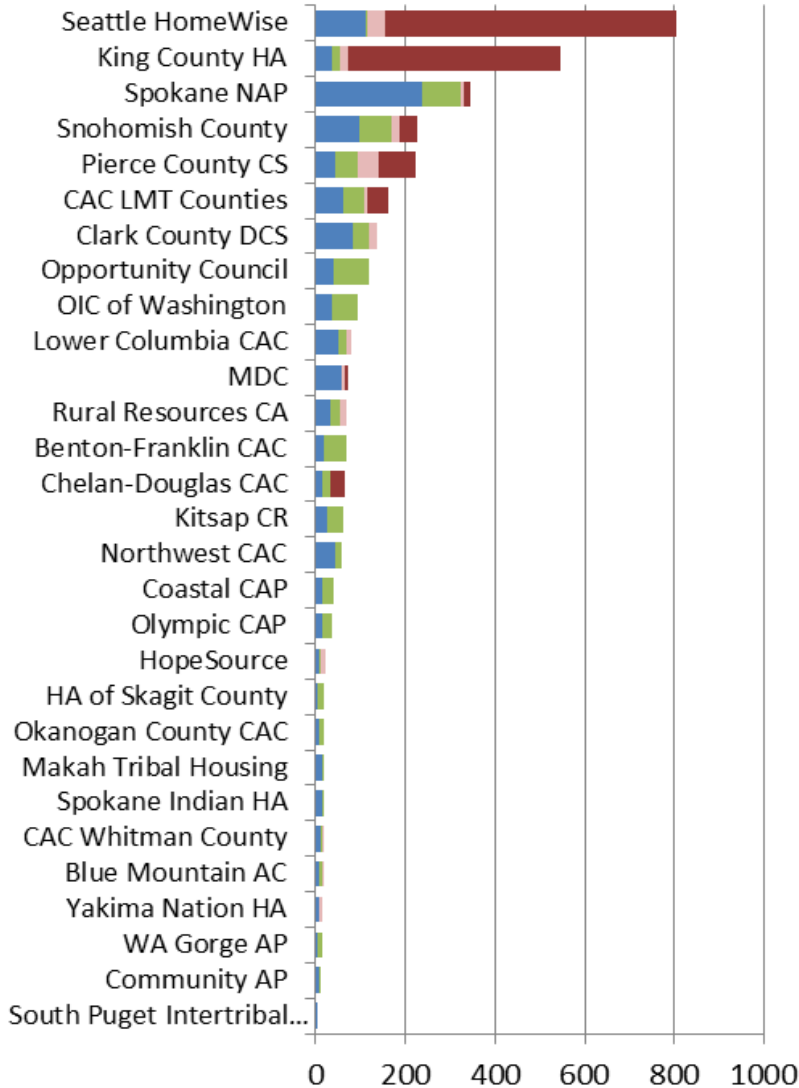
Washington Low Income Weatherization Program
Annual Completions by Unit Type

Single Family Mobile Multi-Family Shelter

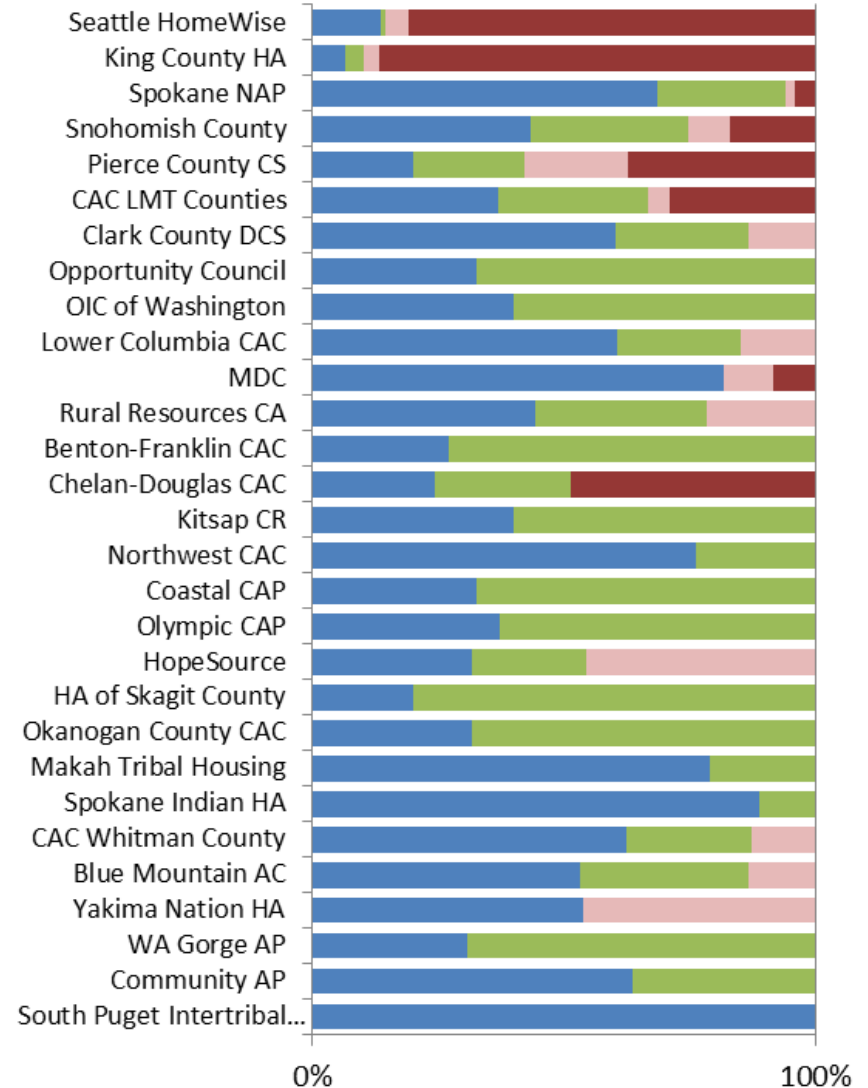


Production by Agency in 2013/14

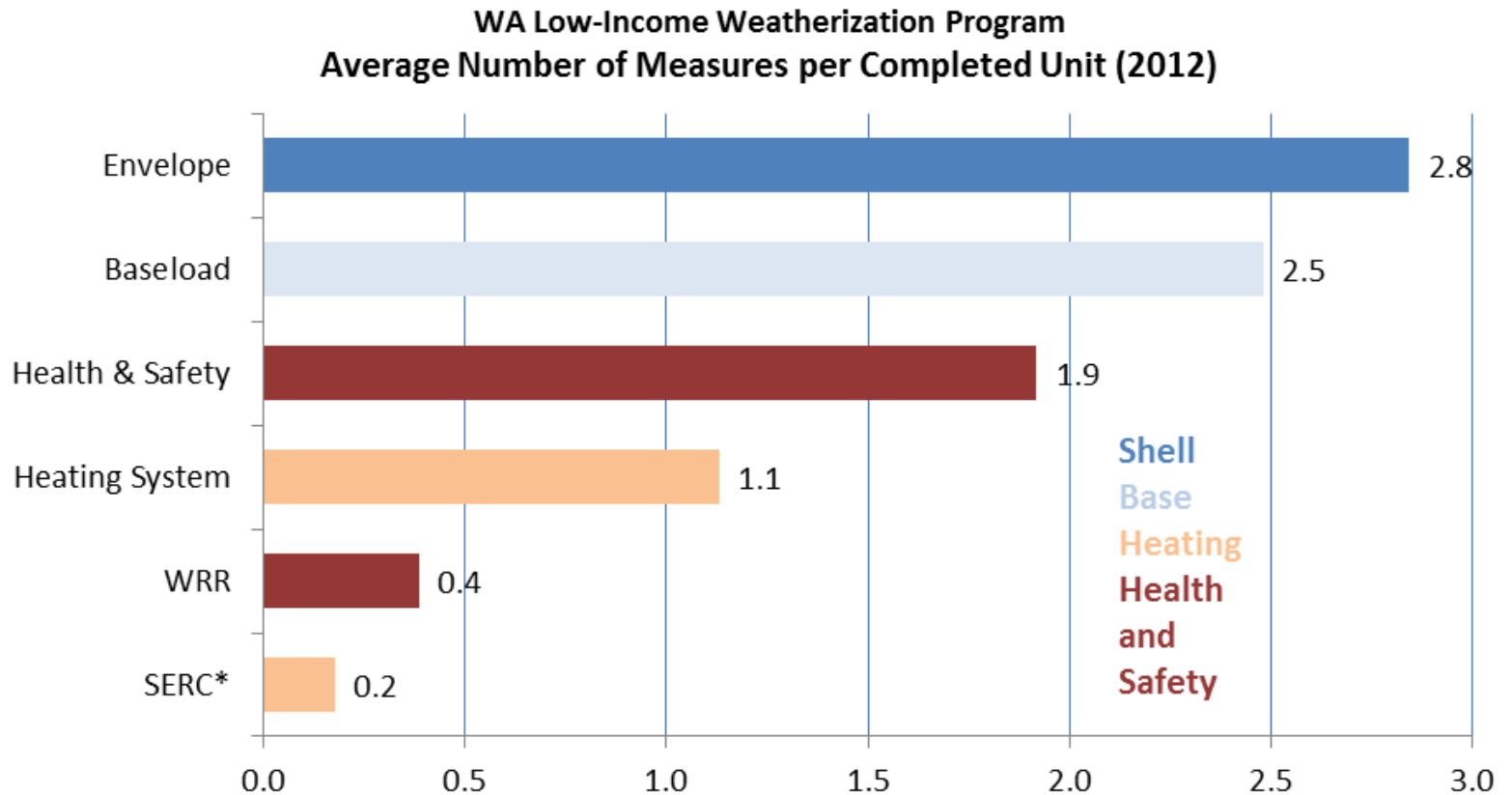
■ Single ■ Mobile ■ Multi 2-4 ■ Multi 5+



■ Single ■ Mobile ■ Multi 2-4 ■ Multi 5+



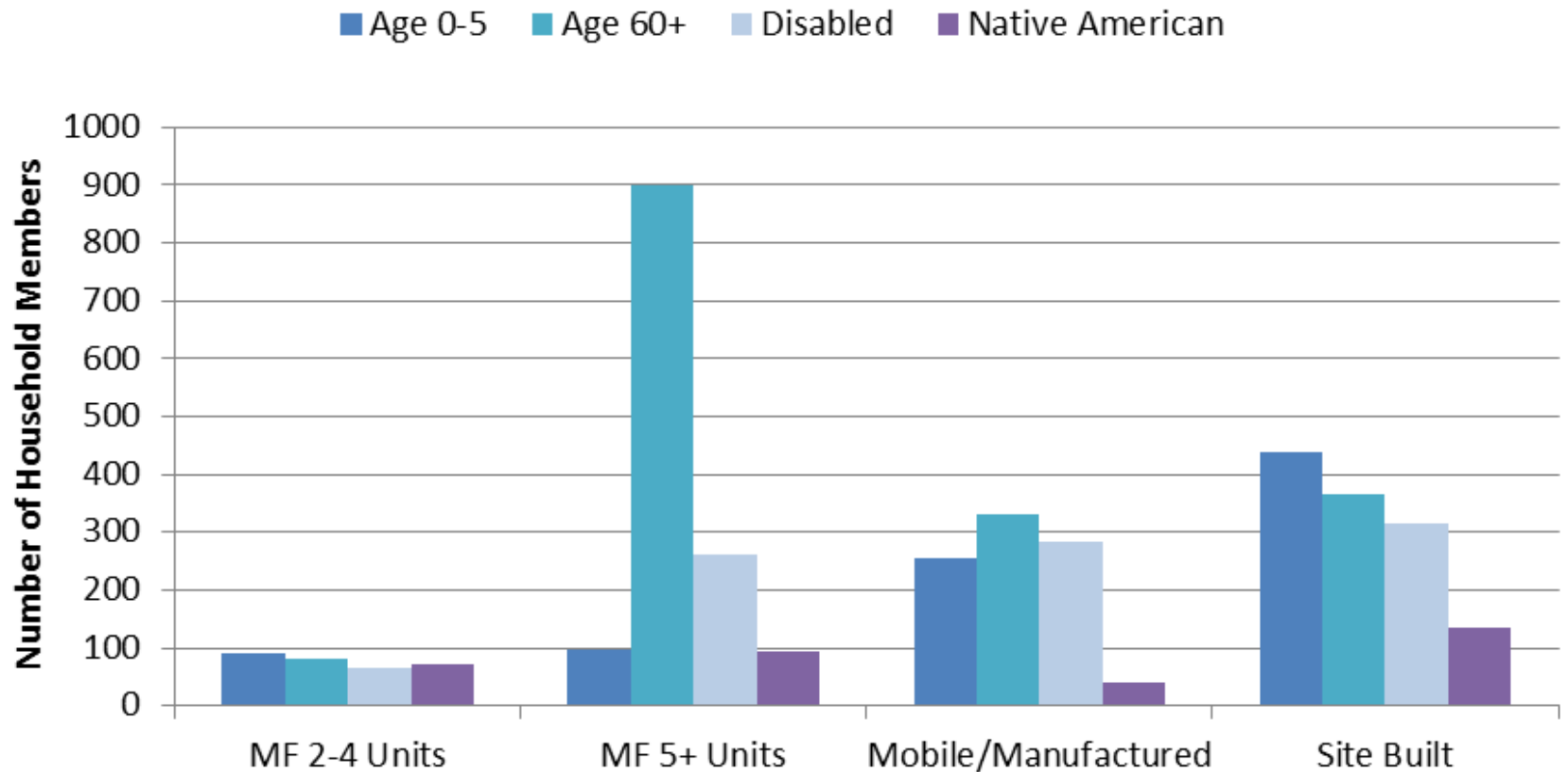
Weatherization Measures by Unit



*The majority of SERC measures are heating measures

Household Demographics

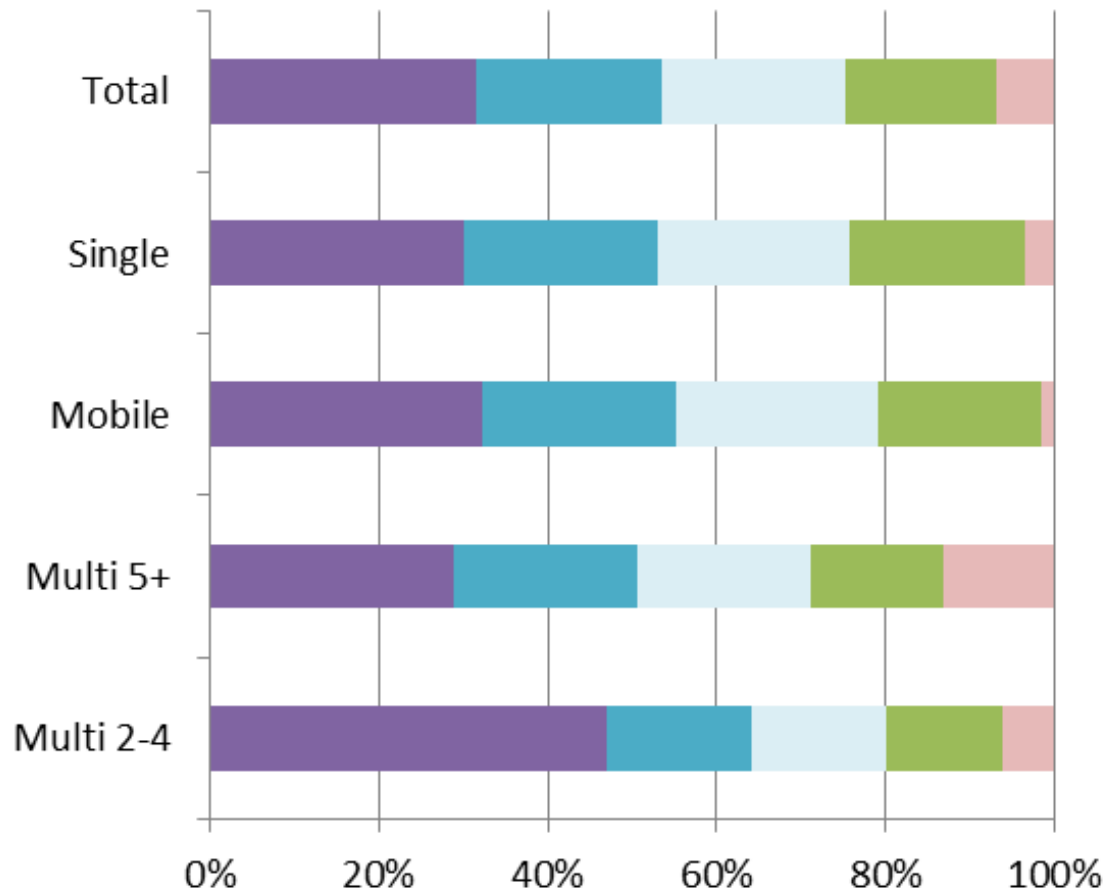
WA Low-Income Weatherization Program
Number of Household Members with High Priority Status, 2012



Household Poverty Level

WA Low-Income Weatherization Program
Share of Units by Percent of FPL, 2012

■ <75% of FPL ■ 75-100% of FPL ■ 101-125% of FPL ■ 126-200% of FPL ■ >200% of FPL



Average Direct Unit Cost

WA Low-Income Weatherization Program
Average 2013/2014 Direct Unit Cost

