

Weatherization

“The Low Hanging Fruit”

Village Strategic Energy Planning

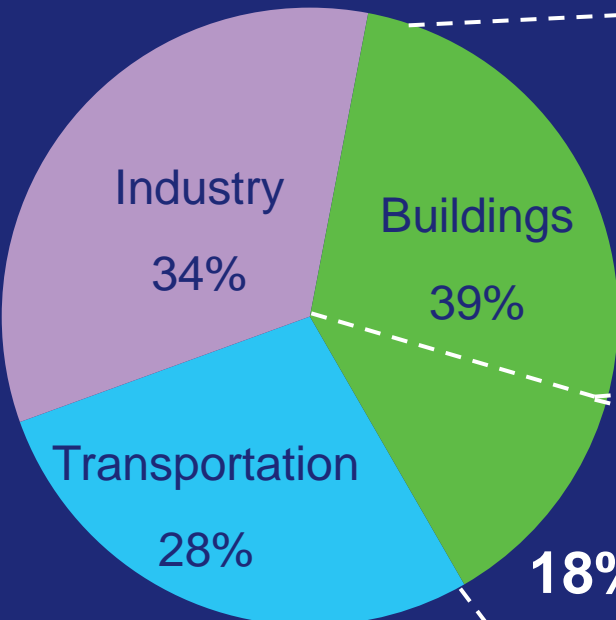
Village Objectives

- Energy Reliability & Security
- Off-Grid Electrification
- Minimize Environmental Impacts
- Supply Diversification
- Use of Local Resources
- Economic Development
 - Jobs
- Build technical expertise
- Respect for Mother Earth
 - Others??



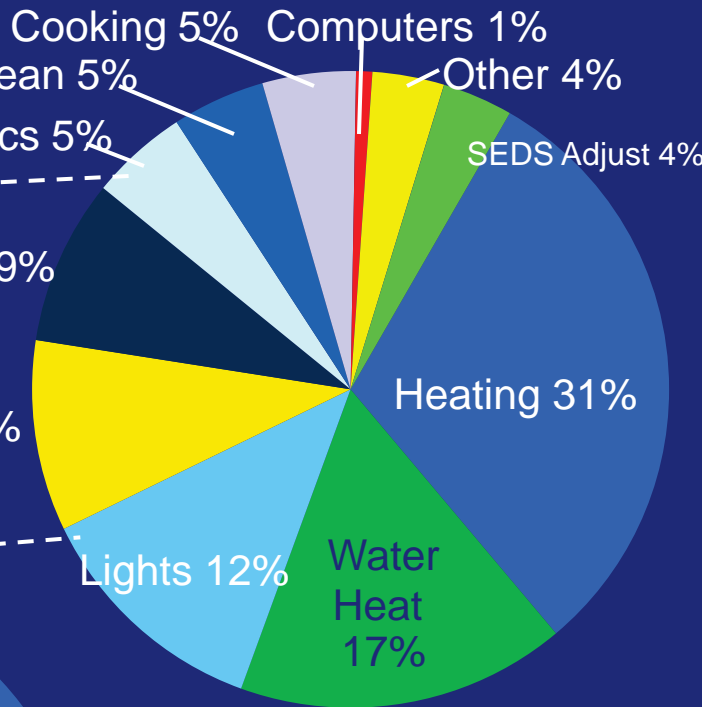
Building Energy Use

Buildings use 70%
of electricity

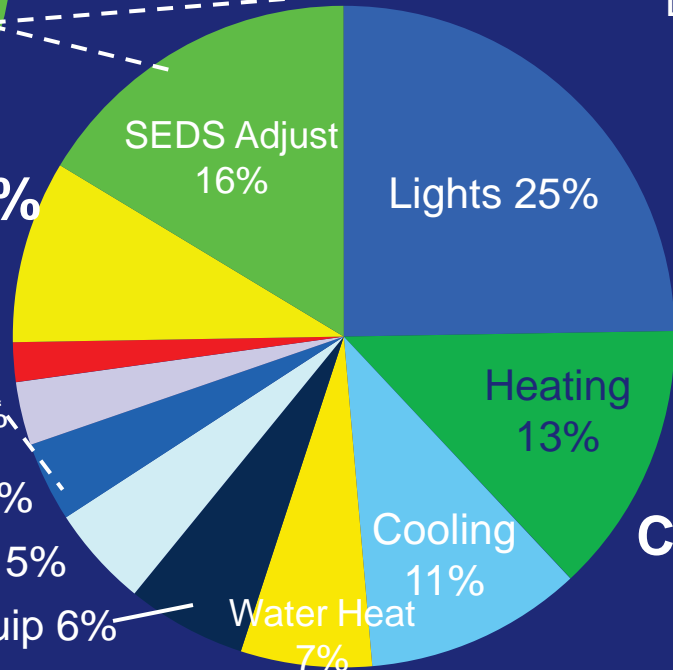


21%

18%



Residential



Commercial

Weatherization Mission

To reduce energy costs for low-income families, particularly for the elderly, people with disabilities, and children, while ensuring their health and safety.

HVAC & Appliance Maintenance



Inadequate Insulation



Infiltration



Controls



How is WAP Implemented?

- Formula Grants from DOE to States/Tribes
- Subgrants from States to Local Agencies and Tribes
- Local Agencies or Tribes perform work on Homes
- Local Agencies or Tribes can also hire contractors to perform work

Tapping into the Weatherization Network

| | |
|-----------------|--------|
| Core Wx Program | \$280M |
|-----------------|--------|

| | |
|------------|----------|
| ARRA-EECBG | \$4,728M |
|------------|----------|

<http://www.eere.energy.gov/weatherization/>

Core Weatherization Program Implementation

- Client applies for services, eligibility determined
- Energy audit is conducted
- List of cost effective and health and safety measures is developed
- Energy efficiency measures are installed
- Client education is introduced
- Post work inspection is conducted

Core Weatherization Program

Who is Eligible?

- Homes must be occupied by low-income persons as defined by program rule.
- Homes can be single family, multi-family, or mobile homes.
- Homes can be owner-occupied or rentals.
- Each home can only be served once, so a complete job must be done the first time.

Core Wx Program

How does it Work?

- Create permanent energy savings which continue year after year.
- Measures based on energy audit or priority list.
- Must show a savings-to-investment ratio of 1 or greater for all measures.
- Use latest technologies.
- DOE Funds limited to \$6,500 per home (FY09)

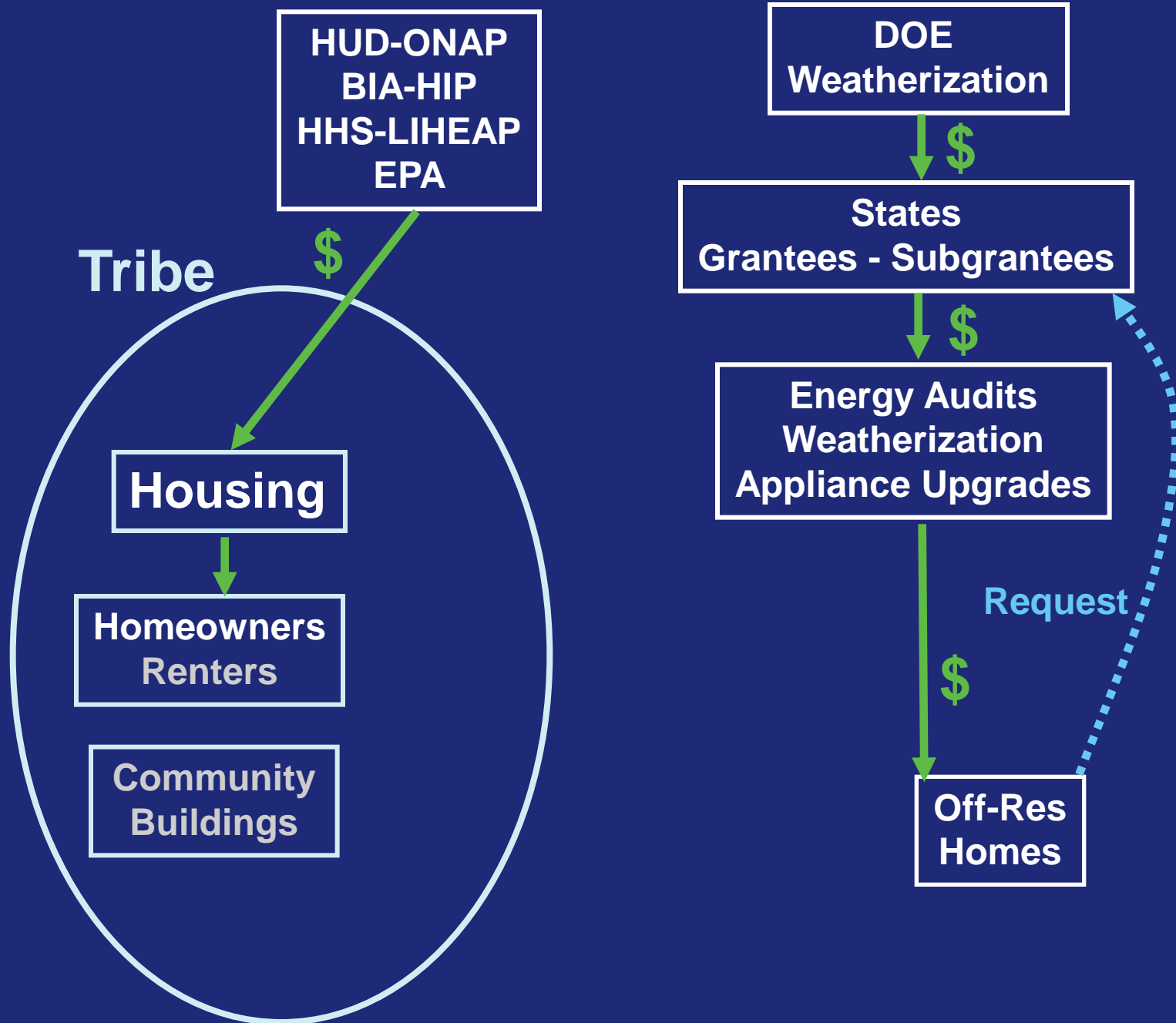


Figure A

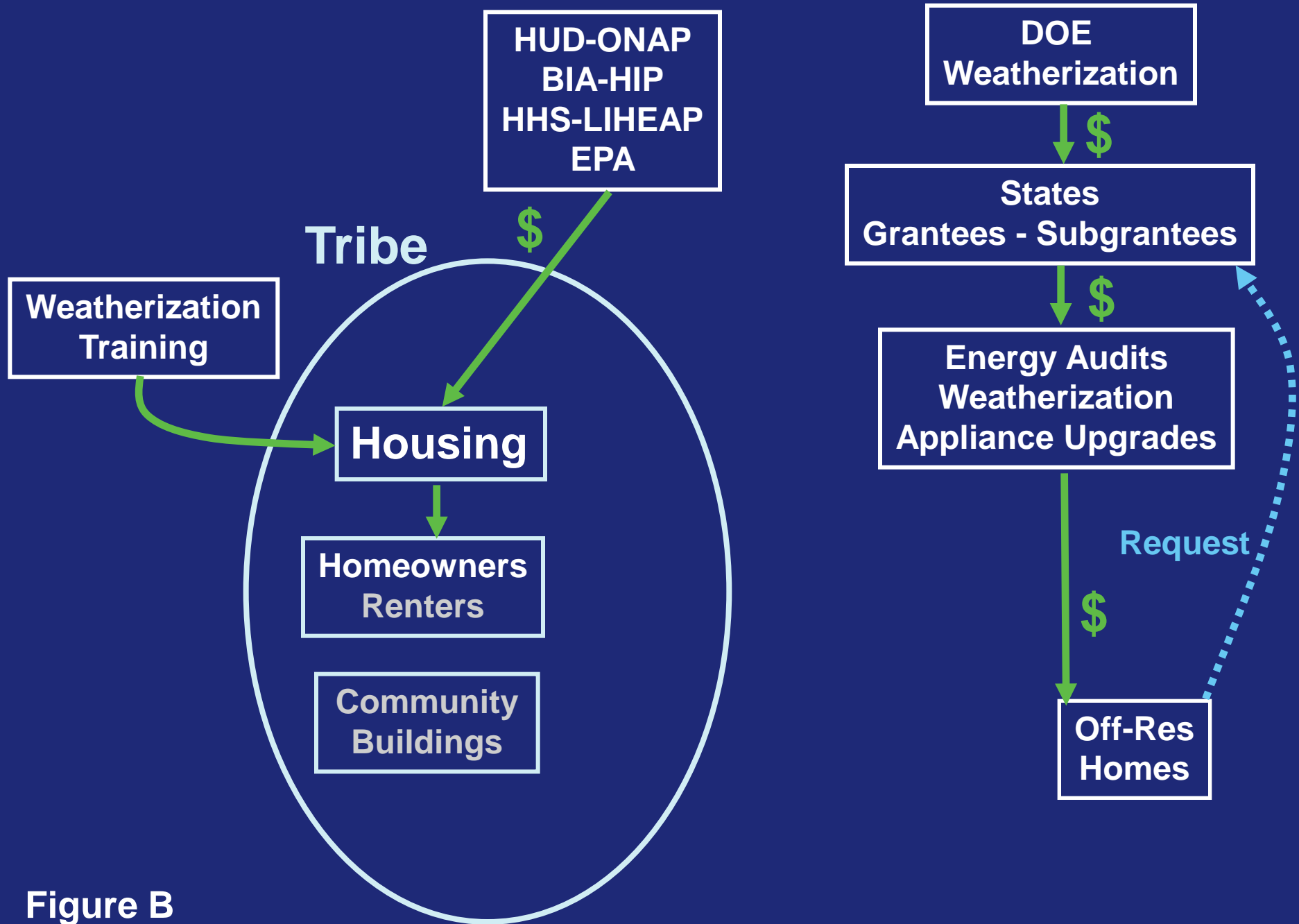


Figure B

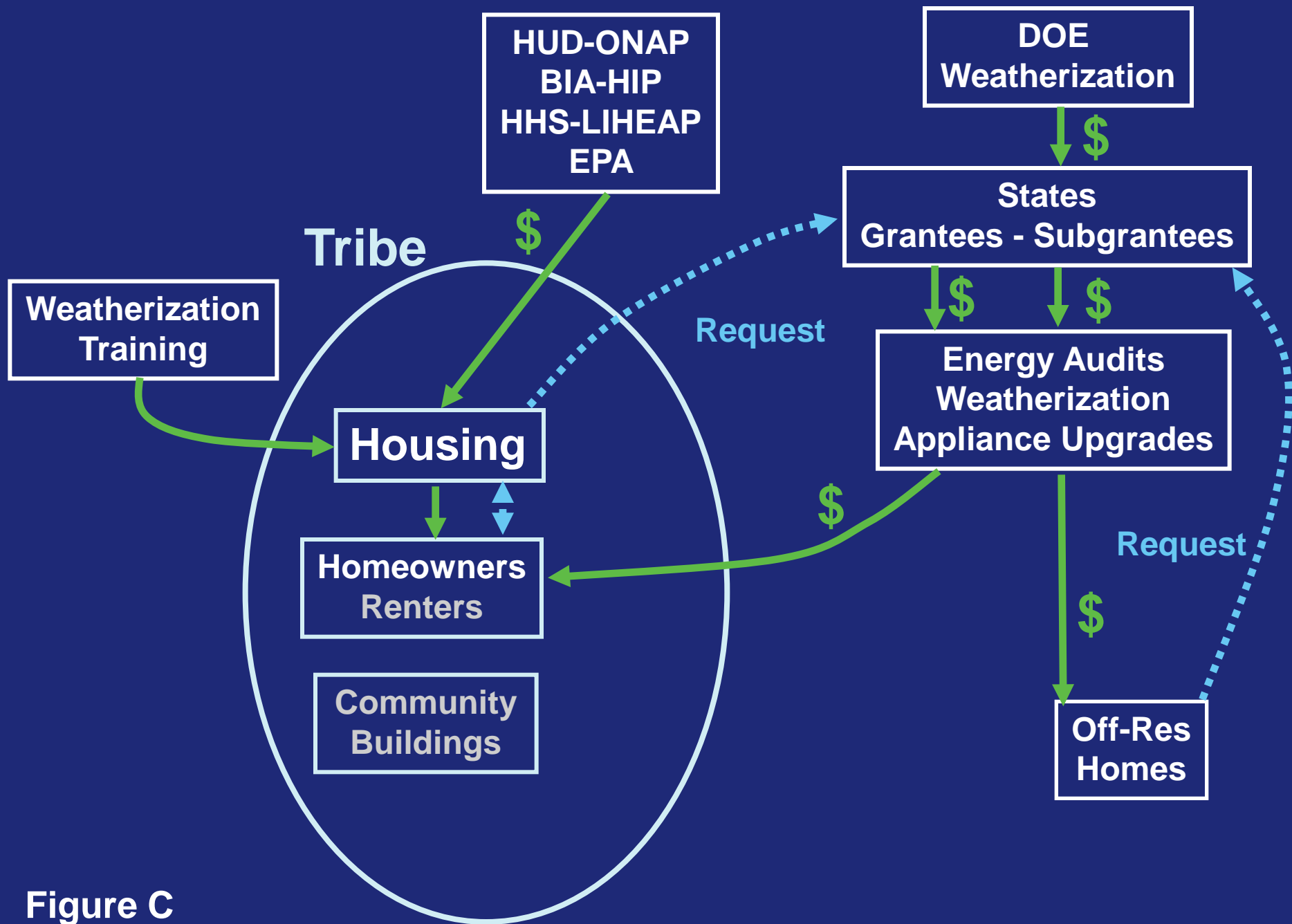


Figure C



Websites For More Information

- Weatherization Assistance Program Technical Assistance Center
<http://www.waptac.org>
- DOE Energy Efficiency and Renewable Energy
<http://www.eere.energy.gov/weatherization>
- DOE Project Management Center
<http://www.eere-pmc.energy.gov>
- Oak Ridge National Laboratory
<http://weatherization.ornl.gov>
- Weatherization Plus
<http://weatherizationplus.org>