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??

Develop a community energy baseline
Develop a common Village energy vision
Identify and support a Village champion
Identify culture and environmental constraints
Identify and evaluate resource options

Demand-Side Options
Supply-Side Options

Integrate supply and demand alternatives
Establish organizational and human resource needs

Strategic Plan
Programs & Projects
Buildings use 70% of electricity.
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
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)
Tribe

Housing

Homeowners
Renters
Community Buildings

HUD-ONAP
BIA-HIP
HHS-LIHEAP
EPA

DOE Weatherization

States Grantees - Subgrantees

Energy Audits Weatherization Appliance Upgrades

Off-Res Homes

Figure A
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