



# The Delaware Low-Income Weatherization Assistance Program

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Sponsor:

DELAWARE HEALTH AND SOCIAL SERVICES (DHSS)  
DIVISION OF STATE SERVICES CENTERS (DSSC)  
OFFICE OF COMMUNITY SERVICES (OCS)

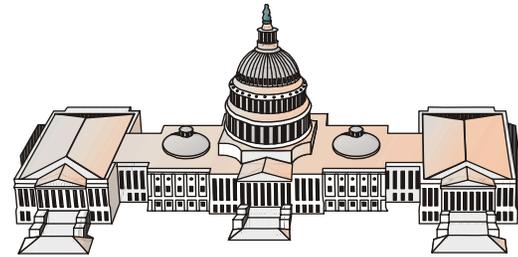
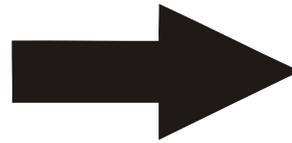
Presentation by:

Ken Davis, Manager, Weatherization Assistance Program

# The Team Approach



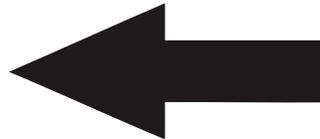
**U.S. Department of Energy  
Headquarters and  
Project Management Centers**



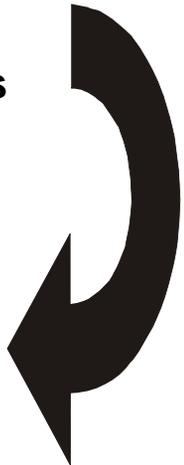
**Delaware Department of  
Health and Social Services**

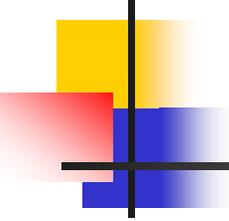


**Homeowner/Renter**



**Three (3) Non-Profit Organizations**





# Source of Funds



*(Figures Available for 2008)*

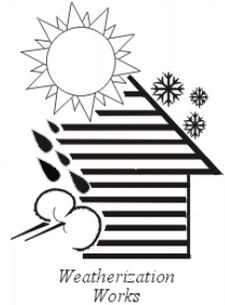
\$ DOE Allocation to States - \$731,419

\$ LIHEAP - \$500,000

\$ Utility Funds - \$367,000

**TOTAL - \$1,598,419**

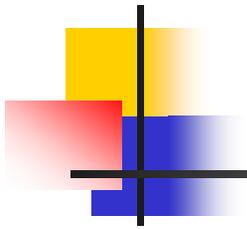
# How Does It Work In Delaware?



- Customer applies for services at Catholic Charities in each county.
- Energy Services Group (ESG), under a contract with Neighborhood House Inc. and First State Community Action Agency, conducts an energy audit on every home to identify energy-related problems.
- A list of cost-effective measures developed by ESG and sent to the agencies.

# How Does It Work In Delaware?

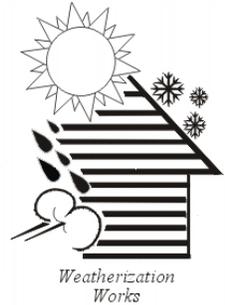
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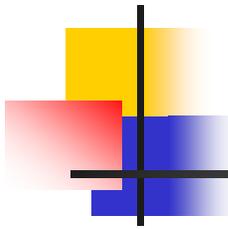
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- Agencies issue proceed orders to private heating and construction contractors to install energy efficiency improvements in the homes.
- ESG also performs a Post-Work Inspection of all work completed and provides client education at the end of the weatherization process.

# Customer Application Process At Catholic Charities

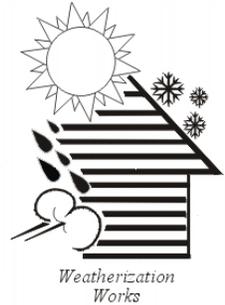


- Must meet income eligibility guidelines
- May receive priority
  - Elderly, disabled, family with children, household with high energy burden/use
- Renters eligible, must get approval from property owner
- When demand is high, customers are added to waiting list

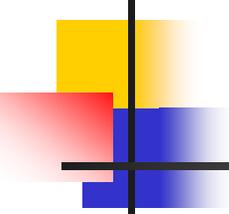


# Energy Audit

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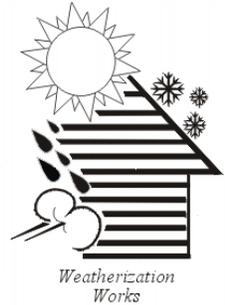


- ESG performs the energy audit
- Uses audit software or other method to estimate potential energy savings
- Diagnostic tools are used to identify energy problems (Blower Door, Infrared Scanner, Electronic Furnace Testing Equipment)
- Develops list of cost-effective measures
- Identifies energy-related health and safety measures needed (e.g., carbon monoxide)



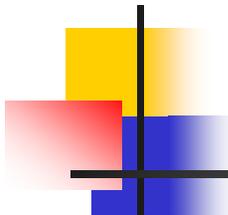
# Priority Lists

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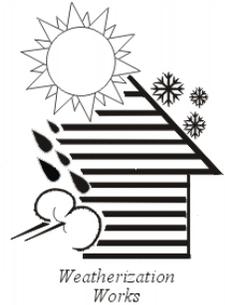
Measures ranking highest on most lists:

- Air sealing
- Attic insulation
- Dense-pack sidewall insulation
- Floor insulation
- Duct sealing and insulation
- Smart thermostats
- Incandescent-to-CFL lighting conversions
- Refrigerator replacement



# Electric Base Load Measures

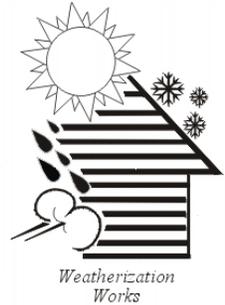
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Electric base-load measures can include:

- Converting incandescent lighting to compact fluorescent
- Replacing or insulating water heaters
- Reducing hot water use
- Reducing appliance usage through client education

# Gas Leak Detection



- Identifies natural gas leaks from stoves and furnaces
- Important health and safety test
- Effective tool for client education
  - Highlights dangers of gas leaks
  - Can eliminate illness and possible death from gas inhalation

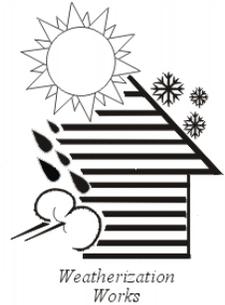
# Mold and Moisture



- Workers must perform services to avoid mold contamination
- WAP funds can not be used to remove mold and other related biological substances
- If necessary, services may be delayed until the existing mold problem can be eliminated
- Customer must be notified upon discovery of mold condition



# Carbon Monoxide



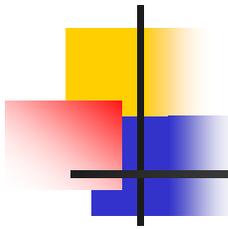
## Measures to Address Carbon Monoxide in the Home:

- Cleaning, tuning, and testing of gas or oil combustion appliances including gas cook stoves
- Venting of un-vented water and space heaters
- Installation of required heating system safety equipment
- Minor repairs or cleaning of heating system venting devices, including chimneys and flues

# Lead Paint

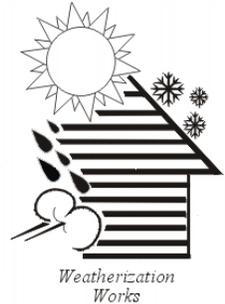


- Workers must conduct activities in a safe manner
- Workers must avoid contaminating homes with lead-based paint dust and debris
- Workers must use materials, tools and equipment to avoid exposing the customers, themselves, and their families to this hazard
- Workers are to assume the presence of lead-based paint in homes built before 1976
- WAP funding may not be used to abate, stabilize, or control the lead hazard



# Health and Safety

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- Delaware expends funds for the installation of materials to abate energy-related health and safety hazards
- First Rule - Do no harm
- Conduct weatherization in a lead-safe manner
- Check for carbon monoxide, gas leaks, moisture/mold, electrical hazards
- Wear protective clothing, equipment
- Always ensure customer safety

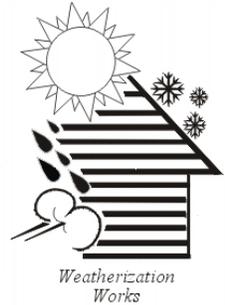
# Client Education



- Instructions on equipment operation and maintenance
- Tips on energy-saving activities
- Information on carbon monoxide and other hazards

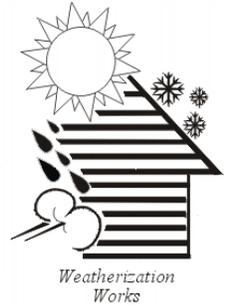


# ESG Conducts Post-Work Inspection



- Every home must receive a quality control inspection for workmanship and appropriateness
- Blower door tests are conducted to ensure proper air sealing
  - Identifies any remaining air leaks
  - Indicates need for ventilation
- Insulation and other measures checked for quality and completeness

# Success Stories



- Sarah C. rarely turned on the heat in her home
- Utility bill ran nearly \$250 per month
- WAP discovered a short that caused a constant flow of electricity
- WAP fixed the problem, installed insulation in her floor and ceiling, and tuned the heating system
- Energy bills were reduced by more than 50%



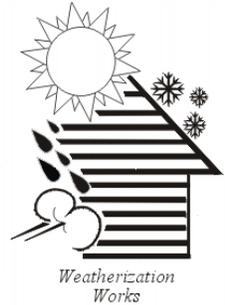
# Success Stories



- Gracie A. lived in a house where temperatures barely rose above 40 degrees F (= 4.44 C)
- Carbon monoxide test revealed deadly levels of CO in the home
- WAP installed a sealed, combustion gas heater and insulated the shell of her home
- The assistance provided resulted in her health improving immediately



# Public Information



- Reach out to policymakers and the press
- Tell the story about high energy prices and high energy burden to the press and others
- Place success stories about families and individuals who may need help or have already been helped
- Keep educating your partners and potential partners

