



# MN Weatherization Assistance Program

## Improving Homes\* Changing Lives

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# Minnesota State Energy Office



Technical Assistance  
EMERGING  
TECHNOLOGIES



ENERGY MARKET  
TRANSFORMATION



EQUITY &  
AFFORDABILITY



# Weatherization Assistance Program





# Weatherization Works!

One-time infusion for a lasting impact

43 years of assisting vulnerable households

- Elderly
- Children
- Persons with disabilities
- High energy burden
- 2,000 HHs/year
- 65% Greater MN

Typical Weatherization Measures Installed



# Weatherization Works!

Leading 40+ years of efficiency innovation



1976  
enabling  
legislation

Caulking

Weatherstripping

1980's

Insulation

Efficient heating systems

1990's

Advanced energy audits

Directed air  
sealing

2000's

Increased Health & safety

Improvement Ventilation

2010's

Increased funding  
(ARRA)

Certifications and  
standard work  
specifications

Healthy AIR launched

2020

Solar as a  
Measure

Expanding technologies  
through WARM Homes

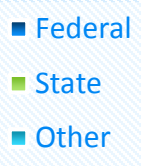
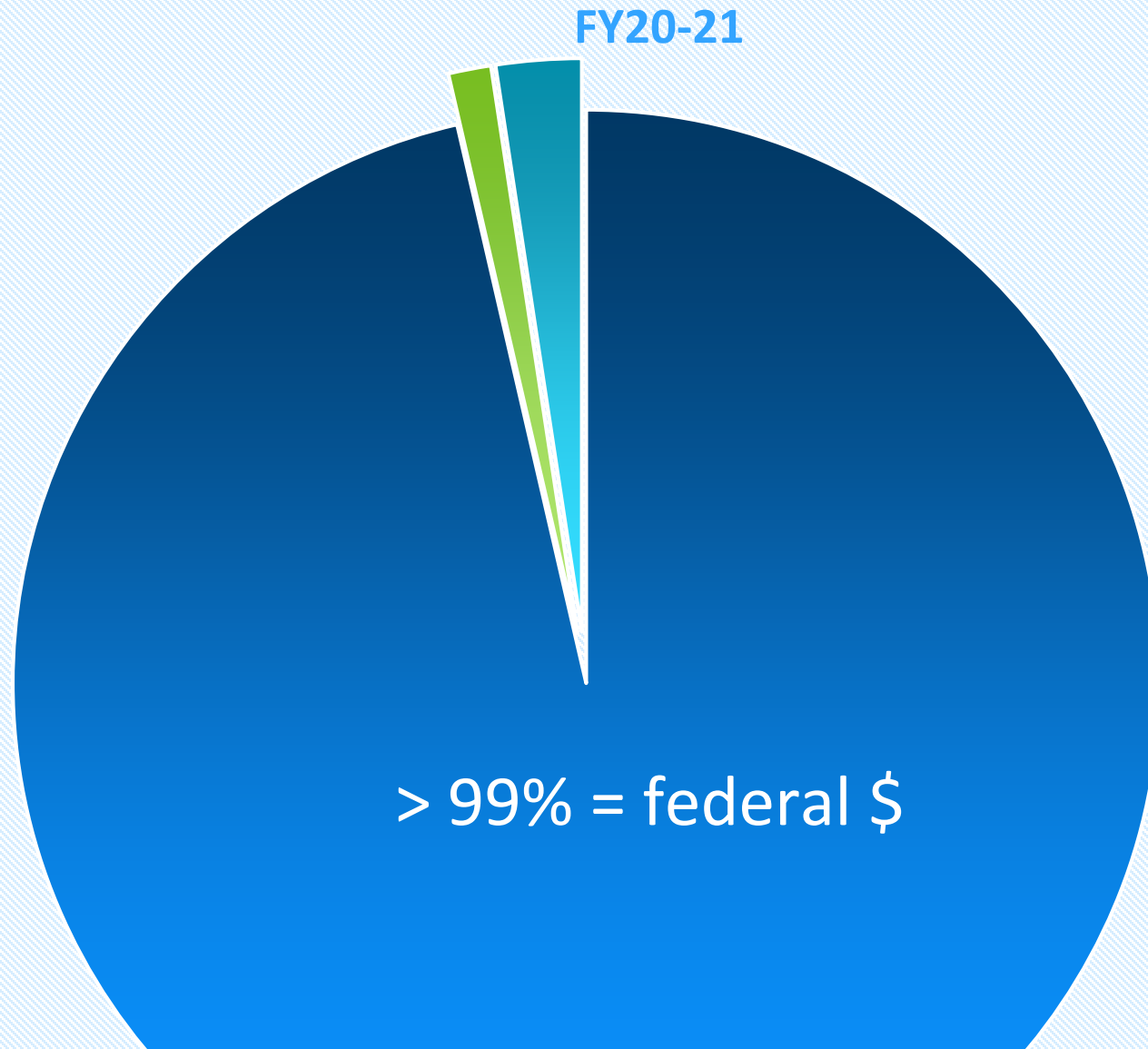
Expand Healthy AIR

# Weatherization Works!

One-time infusion for a lasting impact

- Permanent energy burden reduced by 30-40%
- One-time infusion
- Health & safety improved
- Housing stability increased



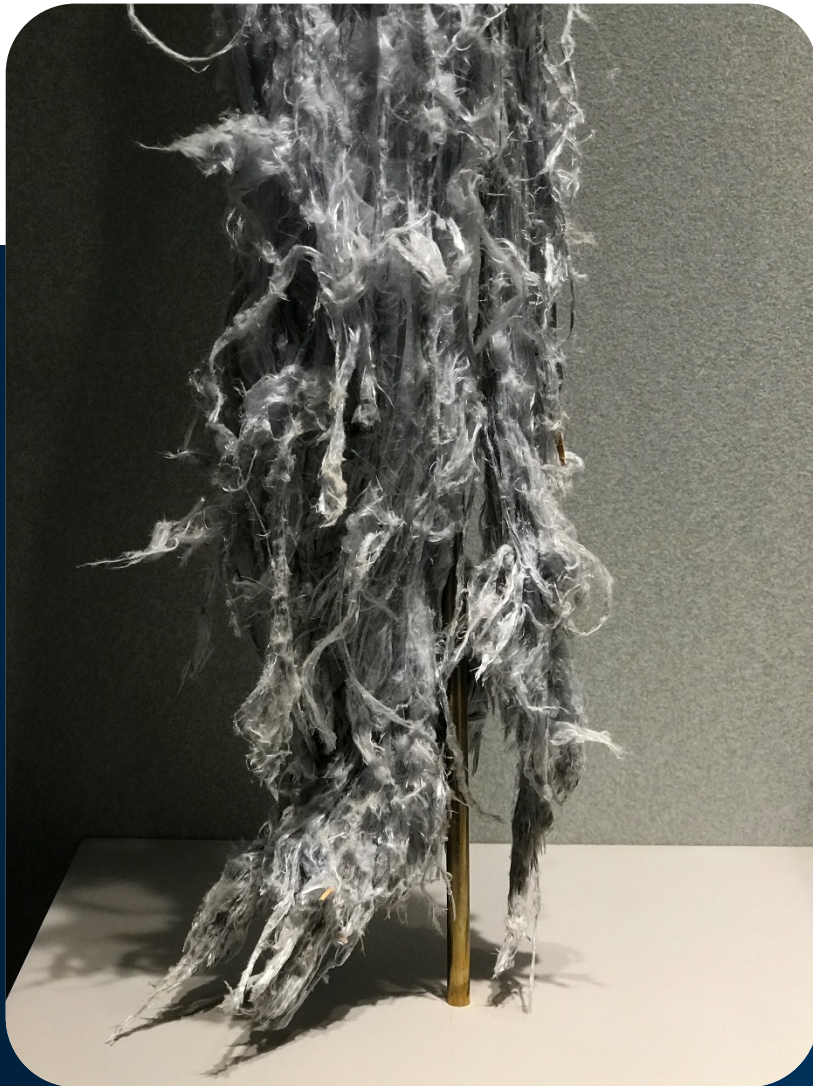


**Weatherization Works!**  
One-time infusion for a lasting impact



# Healthy AIR Program

Expanding Services for Health & Resilience





# Healthy AIR



## Asbestos Insulation Remediation

- Statewide program
- \$150,000 / year x 3 years
- 51 homes to date
- \$8,429 average / household
- No state administrative costs
- Decreasing project costs

# Healthy AIR



# Healthy Air

## Expanding Services for Health & Resilience

- Stable and healthy housing =
  - Economic stability
  - Improved education
  - Decreased health care costs
- Lower-income = higher rates of asthma
- Addressing deferrals = weatherization + healthier air
- Working on partnerships





# WARM Homes Initiative

Weatherization and Renewables for Minnesota (WARM) Homes

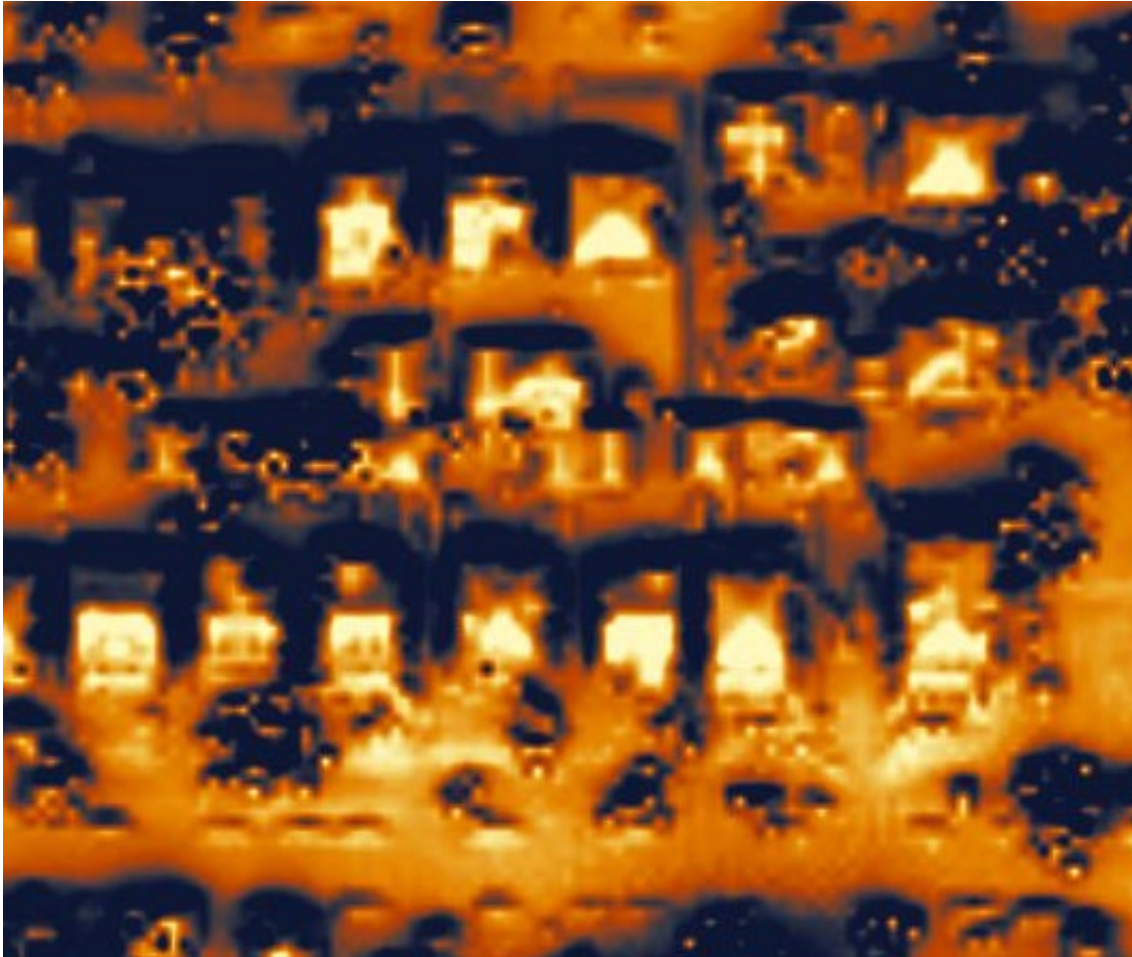
# WARM Homes: Pairing Solar with Weatherization

- USDOE approved solar as a WAP measure in Minnesota in 2019
- BUT – Leveraged funds were necessary to make economics work
  - Average unit cost allowed for solar: \$3699 (PY19)
  - Must pair with other dollars



# (WARM) Homes Initiative:

Weatherization And Renewables for MN Homes



- Current pilot of five homes
- Assessing 86,000 homes
- Weatherization + Solar = Triple Benefit!



# WARM Homes Initiative

Expanding technologies for greater impact



5/6/2020

## Air Source Heat Pumps



# Weatherization Works!

Improving Homes \* Changing Lives





# Thank You

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