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A Program of



NYNest.org

Register today at NYNEST.ORG

- **Wednesday, January 13, 2021, 7-7:50pm**
Clean Heating & Cooling with Heat Pumps & Energy Efficiency
- **Thursday, January 21, 2021, 12-12:50pm**
Air Source Heat Pump Virtual Home Tour (Oxford)

**NEST's HeatSmart
Southern Tier (HSST)
Virtual Webinar Series
Schedule**



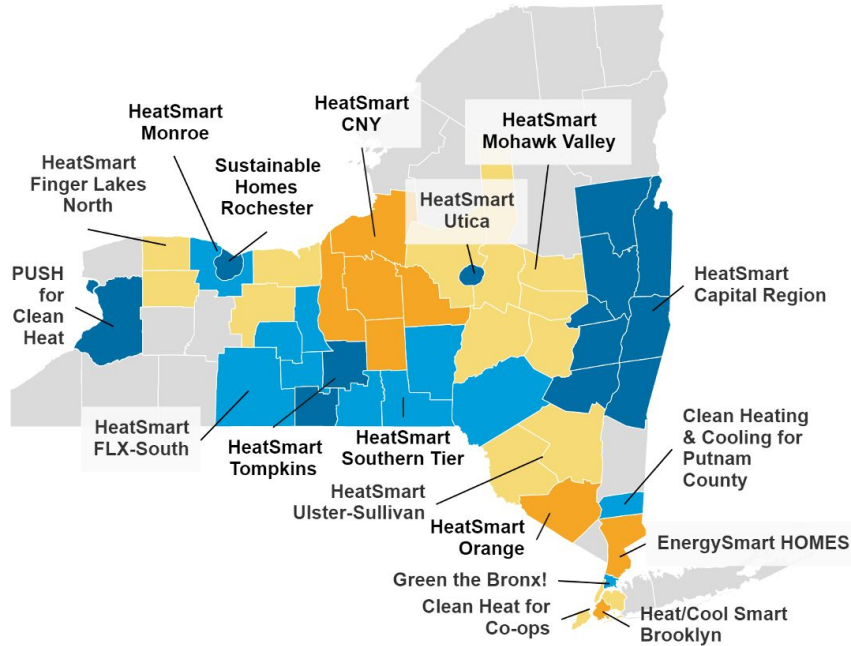
The Network for a Sustainable Tomorrow is a non-profit community-based network of programs working towards social, environmental, and economic justice and equity in our region. NEST catalyzes and convenes new initiatives and partnerships, and does outreach and education to build a stronger and more resilient Southern Tier.



Overview

- **What is Heat Smart Southern Tier?**
- **Why HeatSmart?**
- **Energy Efficiency**
 - Weatherization and home energy assessment
 - Case Study - Pam Adams: Binghamton
- **Incentives & financing**
- **How to participate**
- **Community Solar**
- **Q&A**

What is HeatSmart Southern Tier?



- HeatSmart Southern Tier (HSST) is a NYSERDA-funded community outreach program that connects you to local heating and cooling and energy efficiency experts who offer the latest clean energy technologies.
- We work to educate the public about sustainable heating and cooling systems through our workshops, webinars and tabling events.

Benefits of Heat Smart Southern Tier

- Reduce energy costs
- Home comfort & safety
- Greenhouse gas emissions
- Community awareness



Where Are We Now?



Heat Smart Southern Tier Program Covers:



- Weatherization
- Heat Pumps
 - Ground Source
 - Air Source
 - Water Heater

HeatSmart Southern Tier's Competitively Selected Partners

Air Source Heat Pumps



Ground Source Heat Pumps

Dailey Geothermal

Home Performance and Efficiency



D & D

Refrigeration

(Delaware county)


First Step: Weatherization

Home Energy Assessment

Assessment of customer's heating and cooling needs

- Walkthrough of interior & exterior of home
- Combustion safety test
- Infrared camera
- Blower door test
- Home energy report with recommended weatherization next steps

COMMON AIR LEAKS

-  Air Leaking into the house
-  Air Leaking out of the house



Source: U.S. EPA

Weatherization Benefits

- Reduce energy consumption and costs
- Increase Home Safety
- Improve home comfort
 - Reduce drafts
 - Improve humidity control
 - Improve indoor air quality
 - Reduce risk of ice dams



The Crawlspace (before)



The Crawlspace (before)



The Crawlspace (after)



The Crawlspace (after)



Side Attic- Transition Wall (before)



Side Attic- Transition Wall (after)



Side Attic- Transition Wall (after)



Economics, Incentives, and Financing

Financing

Provider	Loan Product Name	Description
NYSERDA*	Smart Energy Loan	Up to \$25,000; terms of 5, 10, and 15 years; 3.49 <u>or</u> 6.99% interest
	On-Bill Recovery Loan	Up to \$25,000; terms of 5, 10, and 15 years; 3.49 <u>or</u> 6.99% interest; paid on utility bill
	Companion Loan	Up to \$25,000; terms of 5, 10, and 15 years; 6.99% interest additional to OBR or SEL for larger work scopes. Cost effectiveness & other requirements apply. *
ASHP/GSHP Manufacturer Financing (E.g. Synchrony, EnerBank)		Unsecured loans with dealer fees (can be terms of up to 20 years)
Local Banks (e.g. Home Equity, consumer loans)		Dependent on bank

Enabling LMI Participation: Income-eligible programs

Assisted Home Performance with Energy Star Energy Efficiency/Weatherization

- Includes heat pumps as of Dec. 4
 - **50% off project costs**
- Until Dec 31, 2020**
- Limit of **\$5,000** for single-family
 - Limit of **\$10,000** for 2-4 unit multi-family
 - Eligibility expanded up to 120% AMI
- Jan 1, 2021 limits decline to \$4k/\$10k

Household Size	Income Limit
1	\$39,904
2	\$52,192
3	\$64,480
4	\$76,752
5	\$89,040
6	\$101,312

(Income levels subject to change)

Enabling LMI participation: Income-eligible programs

EmPower NY

Energy Efficiency/Weatherization

- Available to homeowners that are under 60% of state median (HEAP/low-income utility rate code eligible) that pay utility bills
- FREE assessment and efficiency improvements
- Max award increased to \$10k until Dec 31. Decreased to \$7k thereafter
- Includes heat pumps as of Dec 4

Household Size	Income Limit
1	\$29,928
2	\$39,144
3	\$48,360
4	\$57,564
5	\$66,780
6	\$75,984

(Income levels subject to change)

What's the Process For Participating?

1. Sign up for a home energy assessment (and/or)
2. Sign up for site assessment from HSST installer(s)
3. Receive a quote for energy improvements
4. Sign contract for desired systems (if any)
5. Apply for incentives/financing (if applicable)
6. Complete installation work

Questions?

Thank You!



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