

# NYS Clean Heat Statewide Heat Pump Program

## Heat Pumps keep your home temperature – and energy costs – just right!

Whether you use a mini-split, central air source or ground source heat pump, these all-in-one heating and air conditioning systems optimize air flow throughout your home or building to use less energy. This technology has the potential to deliver energy savings, especially during the cooling season, while also saving on your heating bill when upgrading from oil, propane and electric resistance. Heat Pumps are now more affordable than ever with National Grid rebates. Additional Heat Pump resources for customers are available, please visit <https://cleanheat.ny.gov/>

*\*Savings will vary depending on replacement fuel source costs, efficiency of equipment replaced, weatherization work completed in your home in the last 5 years and general usage.*

### How do Heat Pump heating and cooling systems work?

Heat Pumps extract heat from the air or ground outside and distribute it inside your home or building. During warmer months the process is reversed. Heat is pulled from your interior space and released outside. These clean energy systems are not only convenient but also highly efficient.

### What are the benefits?

- **Increased efficiency.** Heats and cools your home more efficiently than traditional HVAC systems.
- **Increased comfort.** Heat Pumps provide quiet, even heating and cooling throughout your home or building.
- **Low maintenance.** Systems last longer than conventional HVAC units and require minimal maintenance.
- **Clean, healthy and safe.** No combustion of fossil fuels, no fuel storage, no emissions, and no risk of carbon monoxide fumes.

**Additional Information for Contractors:** Visit <https://saveenergy.ny.gov/NYScleanheat/> for:

- List of participating contractors
- Program enrollment forms
- NYS Clean Heat Statewide Heat Pump Program Manual

To process rebate application, applications are to be submitted by the Participating Contractor using the online application portal hosted by ICF on behalf of National Grid.

**NYSCleanHeat.nationalgrid.com**

NYS Clean Heat Hotline: **844-212-7823**

Custom applications are to be submitted to [NYSCleanHeatCI@nationalgrid.com](mailto:NYSCleanHeatCI@nationalgrid.com)

Custom Incentive Application Forms Visit: <https://www.ngrid.com/nys-cleanheat>

For more information on incentives please visit: [ngrid.com/nys-cleanheat](http://ngrid.com/nys-cleanheat)

For more information on Federal Tax Credits please visit: [EnergyStar.gov](http://EnergyStar.gov)

Category	Technology	Incentive	Contractor Reward (from Incentive)
1	ccASHP: Partial Load Heating	\$500 / outdoor condenser unit	\$100 / outdoor condenser unit
2	ccASHP: Full Load Heating	\$1,000 / \$10,000 BTUH of maximum heating capacity at NEEP 5°F	\$500 / project
3	GSHP: Full Load Heating	\$1,500 / 10,000 BTUH of full load heating capacity as certified by AHRI	\$500 / project
4	Custom Space Heating Applications	\$80 / MMBTU of annual energy savings	\$500 / project
5	HPWH (<120 gallons of tank capacity)	\$700 / unit	N/A
6	Commercial HPWH (> 120 gallons of tank capacity)	\$80 / MMBTU of annual energy savings	N/A
7	GSHP Desuperheater	\$100 / unit	N/A
8	Dedicated domestic hot water (DHW) Water-to-Water Heat Pump (WWHP)	\$900 / unit	N/A
9	Simultaneous Installation of Space Heating and Water Heating	\$250 / Additional bonus per combination installation	\$250 / project

## ELIGIBILITY

NYS Clean Heat rebates are available to all customers statewide through their electric utility. National Grid gas customers receiving electric service from other utilities should visit [cleanheat.ny.gov](http://cleanheat.ny.gov). For detailed eligible technology and eligibility criteria, please see Table 1: Incentive Structure and Eligibility Criteria located in the NYS Clean Heat Program Manual located in the Resources section at [saveenergy.ny.gov/NYScleanheat](http://saveenergy.ny.gov/NYScleanheat)

Category	Description	Target Segments	Eligible Technologies	Eligibility Criteria
1	ccASHP: Partial Load Heating	Residential, Multi-Family, Small Commercial	MSHP, Central ccASHP	<ul style="list-style-type: none"> <li>Each unit in system must be on the Northeast Energy Efficiency Partnership ccASHP Product and Specification List ("NEEP Product List")</li> <li>Total heat pump system heating capacity is &lt;300,000 British Thermal Units per hour ("Bth/h")</li> <li>Total heat pump system heating capacity satisfies &lt;90% of the building's design heating load ("BHL")</li> </ul>
2	ccASHP: Full Load Heating	Residential, Multi-Family, Small Commercial	Central ccASHP, MSHP	<ul style="list-style-type: none"> <li>Each unit in system must be on the NEEP ccASHP Product List</li> <li>Total heat pump system heating capacity is &lt;300,000 Btu/h for central ASHPs installed with a back-up furnace in the same cabinet, the back-up furnace must have capacity &lt;225,000Btu/h</li> <li>Total heat pump system heating capacity satisfies 90%-120% of the BHL</li> </ul>
3	GSHP: Full Load Heating	Residential, Multi-Family, Small Commercial	GSHP	<ul style="list-style-type: none"> <li>Each heat pump in the system must meet or exceed ENERGY STAR® Tier 3 Geothermal Heat Pump Key Product Criteria</li> <li>Total heat pump system heating capacity &lt;300,000 Btu/h and consists only of individual appliance cooling capacity for closed-loop GSHP installs &lt;135,000 Btu/h and/or individual appliance cooling capacity for direct exchange GSHP installs ≤180,000 Btu/h</li> <li>Total heat pump system heating capacity satisfies 90%-120% of the BHL</li> <li>Ground loops must comply with applicable New York Department of Environmental Conservation ("NY DEC"), New York City ("NYC"), and International Ground-Source Heat Pump Association ("IGSHPA") standards</li> </ul>
4	Custom Space Heating Applications	Residential, Multi-Family, Small Commercial, Large C&I	Central ccASHP	<ul style="list-style-type: none"> <li>NEEP listed equipment with total heat pump system heating capacity at design condition of ≥300,000 Btu/h</li> <li>Individual heat pump appliances tested under AHRI 210/240 that meet or exceed the NEEP ccASHP specification requirements, but are not NEEP listed</li> <li>For central ASHPs installed with a back-up furnace in the same cabinet, the back-up furnace must have capacity &lt;225,000 Btu/h</li> </ul>
			MSHP	<ul style="list-style-type: none"> <li>NEEP listed equipment with total heat pump system heating capacity at design condition of ≥300,000 Btu/h</li> <li>Individual heat pump appliances tested under AHRI 210/240 that meet or exceed the NEEP ccASHP specification requirements, but are not NEEP listed</li> </ul>
			Commercial Unitary Systems/ Large Commercial ASHPs	<ul style="list-style-type: none"> <li>Include individual heat pump appliances that are powered by three-phase electricity or have rated cooling capacities ≥65,000 Btu/h</li> <li>Systems must consist of multi-speed or variable speed compressor. Constant speed systems are not eligible for incentives</li> </ul>
			ASVRF	<ul style="list-style-type: none"> <li>ASVRF systems up to 240,000 Btu/h cooling capacity must meet or exceed current ENERGY STAR Light Commercial HVAC Key Product Criteria. For systems with capacities greater than those covered by ENERGY STAR, program eligibility will be determined based on whether proposed heat pump efficiencies meet or exceed local energy code.</li> <li>If the building has a higher BHL than BCL, the total system heating capacity must satisfy 90%-120% of the BHL, which is consistent with the requirement to satisfy BHL under relevant municipal or state code.</li> <li>If the building has a higher BCL than BHL, the system must be sized to satisfy 100%-115% of BCL, as required by relevant municipal or state code.</li> </ul>
			GSHP	<ul style="list-style-type: none"> <li>GSHP systems must meet or exceed the ENERGY STAR Geothermal heat pump specification efficiency requirements and exhibit one or more of the following characteristics: <ul style="list-style-type: none"> <li>Systems with individual heat pump appliances powered by three-phase electricity; or</li> <li>Systems with a total system heating capacity ≥300,000 Btu/h; or</li> <li>Systems that have individual appliance cooling capacity for closed-loop GSHP installs ≥135,000 Btu/h; or</li> <li>Systems that have an individual appliance cooling capacity for direct exchange GSHP installs ≥180,000 Btu/h.</li> </ul> </li> <li><u>Exceptions to the above eligibility criteria:</u></li> <li>GSHP systems with &lt;24,000 btu/h rated full load cooling must meet or exceed the specifications in Table 5.</li> <li>All eligible GSHP systems installed in multifamily buildings shall be eligible for Category 4, regardless of the overall capacity of the system being installed or construction type (new construction, retrofit, gut renovation).</li> </ul>
			GSVRF	<ul style="list-style-type: none"> <li>GSVRF systems, regardless of total heating system size or individual appliance cooling capacity, must meet or exceed the minimum efficiencies listed in Table 6</li> </ul>
			Console Type GSHPs	<ul style="list-style-type: none"> <li>Console type GSHP systems, regardless of total heating system size or individual appliance cooling capacity, must meet or exceed the minimum efficiencies listed in Table 4.</li> </ul>
			PTHPs	<ul style="list-style-type: none"> <li>Manufacturer reported COP at 5°F must exceed 1.75 (at full operating capacity)</li> <li>Compressor must be variable capacity (three or more distinct operating speeds, or continuously variable)</li> <li>Manufacturer reported Heat Pump output at 5°F must be a minimum of 50% of rated heating capacity at 47°F</li> </ul>
			SPVHPs	<ul style="list-style-type: none"> <li>Manufacturer reported COP at 5°F must exceed 1.5 (at full operating capacity)</li> <li>Compressor must be variable capacity (three or more distinct operating speeds, or continuously variable)</li> <li>Manufacturer reported Heat Pump output at 5°F must be a minimum of 50% of rated heating capacity at 47°</li> </ul>
			ERV/HRV	<ul style="list-style-type: none"> <li>Must not be required by federal, state, local or municipal codes or standards</li> <li>Must be paired with an eligible heat pump system</li> </ul>

continued >

**ELIGIBILITY** Cont.

4A	HP + Envelope	Residential, Multi-Family, Small Commercial, Large C&I	See Category 4, plus Window Replacements, Window Film, Wall Insulation, Continuous Insulation, Window Walls, Curtain Walls, Exterior Façade, Air Leakage Sealing, Air Barrier Continuity, Roof Insulation	<p>Eligible projects include any Category 4 heat pumps, installed at either an existing facility or new construction, that is coupled with a significant envelope upgrade.</p> <p>The envelope upgrade must produce a quantifiable impact on the heat pump sizing to be eligible for a packaged approach. Projects may qualify for one of two tiers of envelope upgrade improvements:</p> <p>Tier 1:</p> <ul style="list-style-type: none"> <li>Existing: 5-30% reduction in dominant load compared to baseline</li> <li>New Construction: 1-5% reduction in dominant load compared to baseline</li> </ul> <p>Tier 2:</p> <ul style="list-style-type: none"> <li>Existing: &gt;30% reduction in dominant load compared to baseline</li> <li>New Construction: &gt;5% reduction in dominant load compared to baseline</li> </ul> <p>When combined, the existing baseline will be used for calculating energy savings except for new construction projects, which should use a code baseline for savings analysis. The MMBtu savings from both the envelope measures and the HP measures will both be paid out at the 4A rate based on the tier qualified for. If a heat pump plus envelope upgrade also includes an eligible ERV/HRV, the ERV/HRV will also receive a category 4A incentive.</p> <p>Eligible measures including but not limited to:</p> <p>Exterior: window replacements, window film          Opaque shell: wall insulation, continuous insulation, window walls, curtain walls exterior façade          Air leakage sealing, air barrier continuity          Roof insulation</p>
5	HPWH (<120 gallons of tank capacity)	Residential, Multi-Family, Small Commercial	Air-to-water HPWHs	<ul style="list-style-type: none"> <li>Air-to-Water HPWHs with storage capacities up to 120 gallons must meet or exceed Energy Star Residential Water Heater specification</li> </ul>
6	Custom Hot Water Heating Applications	Multi-Family, Large C&I	Air-to-Water HPWHs Dedicated DHW WWHP added to ground loop	<p>Air-to-Water HPWHs with storage capacities greater than 120 gallons must meet or exceed ENERGY STAR Commercial Water Heater requirements.</p> <p>Dedicated DHW WWHP with storage capacities greater than 120 gallons must meet or exceed ENERGY STAR Geothermal requirements.</p> <p>For scenarios in which Custom project eligibility is not clearly defined for domestic hot water heat pump applications, the following shall be used to determine eligibility for Category 6 Custom Hot Water Heating Applications incentives:</p> <ul style="list-style-type: none"> <li>Fossil fuel (heating oil, natural gas, steam generated by fossil fuel, etc.) energy consumption must be reduced by the new electric technology or application</li> <li>The new electric technology or application:             <ol style="list-style-type: none"> <li>Must not increase the overall annual site energy consumption</li> <li>Shall be market ready and can meet or exceed applicable minimum efficiency specifications</li> </ol> </li> </ul>
7	GSHP Desuperheater	Residential, Multi-Family, Small Commercial	Optional Component to GSHP systems	<ul style="list-style-type: none"> <li>Installed as integral component in an eligible</li> </ul>
8	Dedicated domestic hot water (DHW) Water-to-Water Heat Pump (WWHP)	Residential, Multi-Family, Small Commercial	Dedicated DHW WWHP (<120 gallons) added to ground loop	<ul style="list-style-type: none"> <li>Can be integrated into an eligible GSHP or installed as a separate WWHP meeting or exceeding Energy Star Geothermal specifications</li> <li>Must meet 100% of water heating load</li> </ul>