

Heat Recovery Program

Overview



\$12 MILLION in funding available

Eligibility

Categories 1-3:

All existing buildings in New York State excluding single family. Project teams must include a building owner and an engineering consultant.

Category 4:

Solution providers qualified through NYSERDA's RFQL 5217.

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Heat recovery solutions for building owners

Buildings lose heat through ventilation, cooling, and wastewater removal. Internal processes also produce heat that goes unused. Unfortunately, building owners often pay to remove excess heat from one location then pay to produce it in another.

Heat recovery is the process of capturing, storing, and repurposing wasted heat.

Buildings account for around one-third of New York's greenhouse gas emissions. Therefore, recovering wasted heat — and repurposing it at point of use or storing it for later — represents a promising approach to building decarbonization.

With heat recovery, building owners can

- Reduce operating costs
- Lower carbon emissions
- Take a first step toward building decarbonization

Let's turn energy losses into gains

NYSERDA has four funding pathways (see next page) to create innovative, next-generation heat recovery solutions. Categories 1, 2, and 3 are open to building owners and consulting engineers. Category 4 is specifically for solution providers qualified by NYSERDA's RFQL 5217 – Heat Recovery Solutions.



NYSERDA

Review the opportunities, and let's get New York's buildings the solutions they need.

1 OPPORTUNITY ASSESSMENT <ul style="list-style-type: none">• Document current operations and define heat recovery opportunity• Up to \$40,000	2 PROJECT DESIGN <ul style="list-style-type: none">• Develop schematic designs for technically and economically viable heat recovery projects• Up to \$80,000
3 DEMONSTRATION <ul style="list-style-type: none">• Implement heat recovery projects for data centers, high-temp heat pumps, packaged exhaust heat recovery, or thermal storage• Up to \$2,000,000	4 MANUFACTURER GROWTH INITIATIVE <ul style="list-style-type: none">• Business development support for qualified heat recovery solution providers• Up to \$100,00 (cost-share)

Who can apply?

Building owners, consulting engineers, and manufacturers that make it possible to recover heat economically from New York State's commercial, institutional, industrial, and/or multifamily buildings.

Examples of heat recovery opportunities

- **Multiuse buildings with simultaneous heating and cooling loads**
For example, a first-floor supermarket with a year-long cooling load can provide rejected heat for domestic hot water (DHW) production for the apartments above.
- **Buildings with 100% outdoor air ventilation**
When fresh air and exhaust ventilation infrastructure are close together, consider energy recovery ventilators to temper incoming fresh air.
- **Buildings on district steam**
Recover heat from steam return condensate to pre-heat DHW (in New York City, steam return condensate must be quenched before being released into the sewer line).
- **Buildings with fossil fuel burning equipment**
Recover heat from flue gases, similar to how a condensing boiler functions.
- **Residential buildings**
Wastewater heat recovery from the building sewage line for DHW production.



Ready to get started?

To learn more visit nyscrda.ny.gov/Heat-Recovery or email heatrecovery@nyscrda.ny.gov.



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