

NYSERDA Heat Recovery Program

Informational Webinar PON 5547

November 8, 2023



NYSERDA

AGENDA

Attendees are muted upon entry

Questions and comments may be submitted through the Q&A function

Today's materials will be posted to:
www.nyserda.ny.gov/All-Programs/Heat-Recovery-Program/Heat-Recovery-Project-Development

- Heat Recovery Program Overview
- Review of Program Opportunity Notice (PON) 5547
 - Category 1
 - Category 2
- Application Requirements
- Q&A
- Additional Resources



Contact

If you have questions, email
HeatRecovery@nyserda.ny.gov



Open Enrollment

Applications accepted until
Monday, November 17, 2025
at 3 PM ET

Overview of the Heat Recovery Program

Program Goals

Highlight heat recovery opportunities and share the risk in order to:

- bring forward better solutions,
- shorten the learning curve, and
- demonstrate successes

to accelerate customer confidence in heat recovery as a promising approach to decarbonization.

Budget

\$12 Million

Eligibility

All existing buildings across NYS that contribute to the System Benefit Charge (SBC) including Multifamily, Commercial, Industrial, and Institutional buildings.

Heat Recovery Opportunities

Identify rejected heat from equipment or processes within buildings.

Heating

Cooling

Ventilation



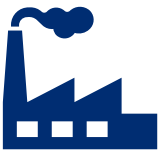
Cooling produces heat



Heat is lost through ventilation...



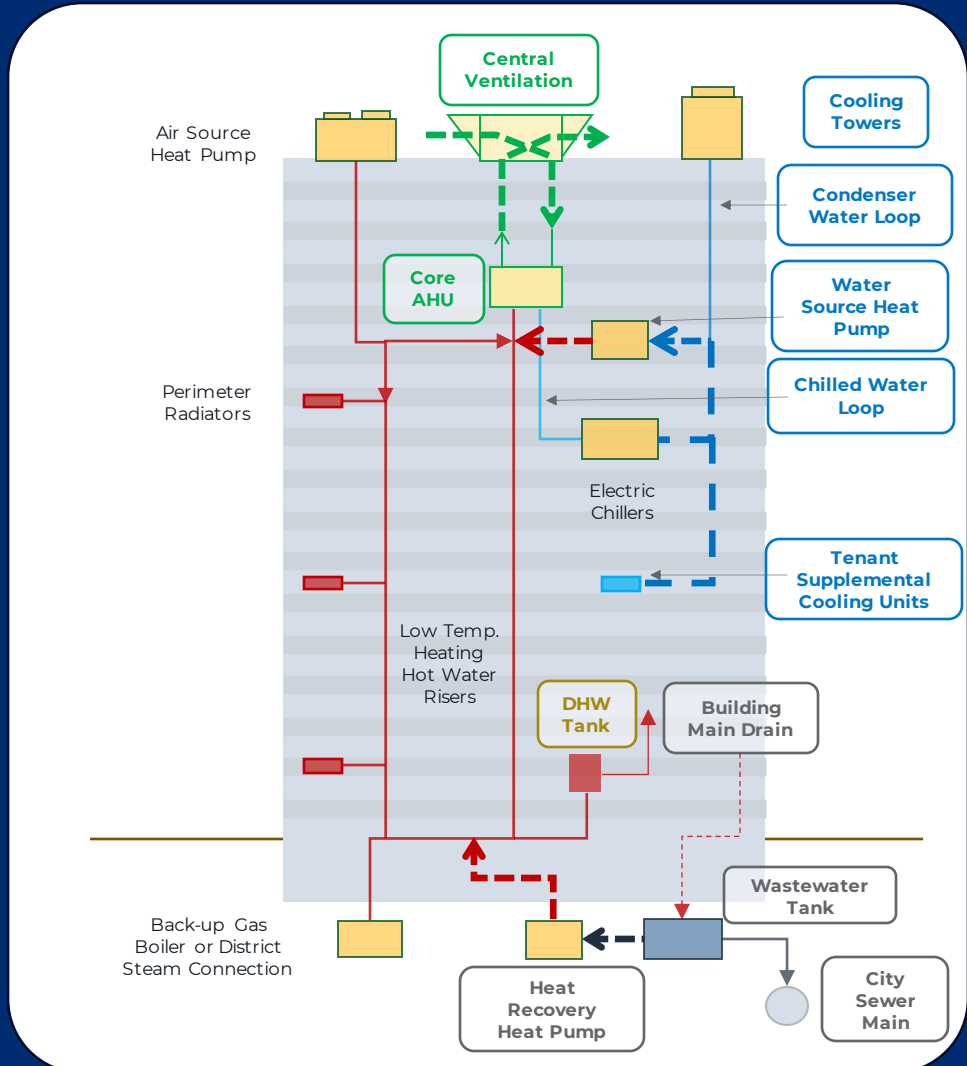
...or goes down the drain



Internal processes also produce heat



Heat can be stored



Program Structure

The Heat Recovery Program provides funding in two categories at **75% cost-share**.

1 Opportunity Assessment

- Document current operations and define heat recovery opportunity
- Up to \$40k

2 Project Design

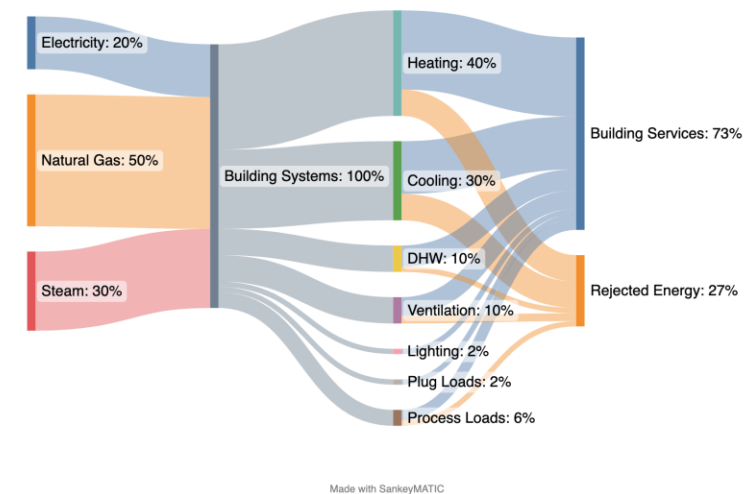
- Develop schematic designs for technically and economically viable heat recovery projects
- Up to \$80k

- Participation in Category 1 is not a requirement to participate in Category 2.
- Affordable Multifamily Housing may qualify for additional cost-share.

1 Heat Recovery Opportunity Assessments

- Document current building infrastructure, quantify and diagram rejected heat from current operations and explore potential cost-effective measures to recover and reuse heat to reduce total consumption
 - Consider ventilation, cooling, process, wastewater, and thermal storage in assessment
 - Key outcome is actionable information providing justification for customers to move forward with design
- **75% cost share of assessment costs capped at \$40k**
 - Kickoff meeting with NYSERDA
 - Final report on Process, Findings, and Recommendations from Assessment including an Energy Flow Diagram

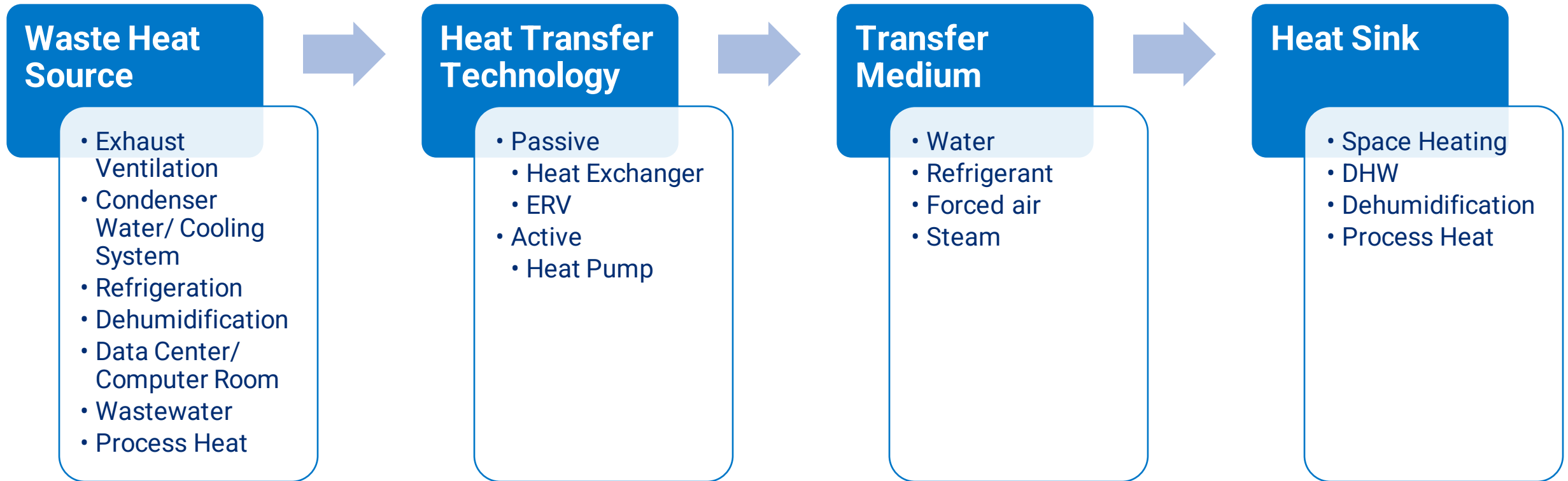
Sample Energy Flow Diagram



2 Heat Recovery Design

- Develop a technically and economically feasible project design to improve the heat recovery performance of an existing property.
- Recovery from ventilation, cooling, process, and wastewater systems is eligible, and thermal storage when accompanying other eligible measures.
- Examples of potential designs include:
 - Integrating Energy Recovery Ventilator (ERV) to existing or modified building ventilation systems
 - Heat recovery chiller extracting heat from the condenser water loop before it is rejected via cooling towers
 - Wastewater heat pump, recovering heat from wastewater at building scale before it exits to the municipality's sanitary sewer main
- **75% cost share of design costs capped at \$80k**
 - Design Charrette with NYSERDA
 - Schematic project designs, data collection form, and accompanying narrative
 - Final versions reflecting NYSERDA comments

Heat Recovery System Design Components





Eligible Heat Recovery Design Projects

Examples of solutions include, but are not limited to the following:



Cooling and Dehumidification Process Heat Recovery

- Ex) Condenser water heat recovery, using heat recovery chillers or water source heat pumps (WSHP) to extract heat from condenser water loop before exhausting heat into the atmosphere with cooling towers or dry coolers



Ventilation Exhaust Heat Recovery

- Ex) Integrating Energy Recovery Ventilator (ERV) to existing or modified building ventilation systems



Wastewater Heat Recovery

- Ex) Wastewater heat pump, recovering heat from wastewater at building scale before it exits to the municipality's sanitary sewer main



Process Waste Heat Recovery

- Ex) Capturing the waste heat generated by industrial or other processes to be reused within a plant's process streams or injected into a district thermal energy network to supply neighboring buildings



Thermal Storage to Enhance Heat Recovery Systems

- Ex) Ice heating: using the process of making ice to produce usable heat. This enables the use of the ice storage tank for heating purposes and maximizes its utility

Application Requirements

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Heat Recovery Program (PON 5547) Application

Please complete the Application, and include a Scope of Work and Budget in the Uploads section below.

Please note: Partially completed information cannot be saved, be sure to have all details with you before beginning the form. Upon submission, you will receive a confirmation and a tracking number on your screen to print or save. Refer to this tracking number to check on the status of your request.

For full program details, eligibility, and templates for the Budget and Scope of Work visit https://portal.nysesda.ny.gov/CORE_Solicitation_Detail_Page?SolicitationId=a0r8z000000EJUUm. If you have any questions, contact Molly Kiick at HeatRecovery@nysesda.ny.gov or call (518) 862-1090, ext. 3232.

* Required field

Who is the Applicant? Program funds will be distributed to the Applicant. *

Building Owner Consultant or Service Provider

Select the category you are applying for: *

Category 1 Opportunity Assessment
 Category 2 Project Design

- Submit application package through <https://nysesda.seamlessdocs.com/f/HeatRecovery>
- A complete application package requires the following:
 - Completed SeamlessDocs Application Form
 - Scope of Work
 - Budget
 - A Project Team (at a minimum, includes an eligible building owner and consultant)
- Applicant may be any member of the Project Team
- Template documents are available on the [Heat Recovery Solicitation Page](#)

**Final applications due on 11/17/2025
by 3 PM EST**

Q&A

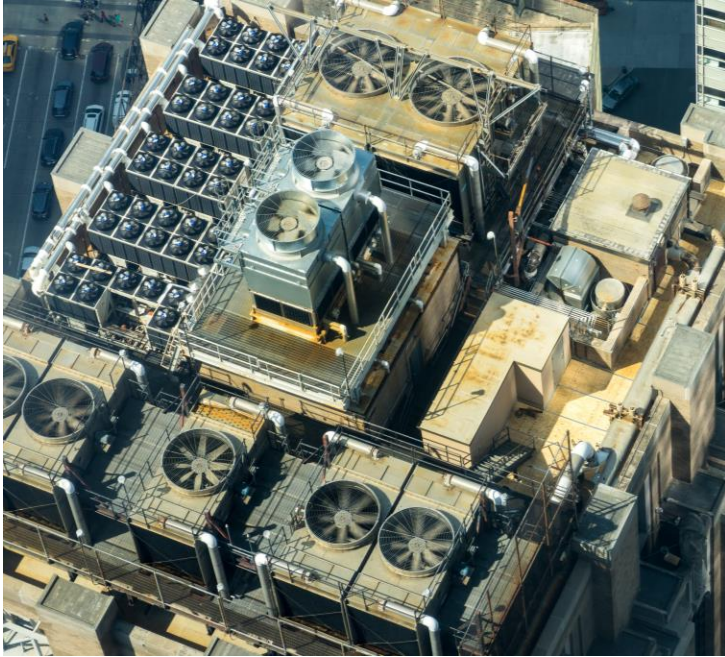
Type your questions in the Q&A tool.

All questions and answers will be made publicly available on the Heat Recovery webpage:

www.nyserda.ny.gov/All-Programs/Heat-Recovery-Program/Heat-Recovery-Project-Development

Send additional questions to:

HeatRecovery@nyserda.ny.gov



Heat Recovery Solutions RFQL 5217 is focused on Heat Recovery Manufacturers.

RFQL 5217 promotes the adoption of heat recovery products that are innovative and efficient solutions for existing commercial, institutional, industrial, and/or multifamily buildings.

Working with NYSERDA through **RFQL 5217** will help qualified solution providers access the New York market, receive support for technology transfer and participate in exchanges with key market stakeholders.

Evaluation stages include:

- **Technical Review:** online application with product focused questions
- **Market Acceptance Review:** NYSERDA staff and external subject matter experts will evaluate all proposals based on the same pre-established evaluation criteria

Heat Recovery Solutions RFQL 5217

EMAIL: HeatRecovery@nyserda.ny.gov

Read RFQL Documentation, Share with Manufacturers, Submit Online Application



NYSERDA

Con Edison Incentive Programs – Heat Recovery

Con Edison provides *installation incentives* for Heat Recovery projects which result in energy savings.

C&I – Energy Efficiency Program

Incentives	Incentive Rate ¹	Heat Recovery Technologies Incentivized
Electric	\$0.45/kwh	<ul style="list-style-type: none"> Systems that beneficially reuse waste heat for space conditions or DHW Heat recovery ventilators (HRV), and energy recovery ventilators (ERV)
Gas	\$8/therm	
Steam	\$80/Mlbs	

C&I and MF - NYS Clean Heat Program

Systems Incentivized	Ground Source Heat Pumps Incentives ¹ <i>Existing & New Construction</i>	All Other Heat Pump Technologies <i>Existing Buildings</i>	Heat Recovery Technologies Incentivized
<ul style="list-style-type: none"> • Full Load Space Heating • Full Load Space Heating + Envelope • Partial Load Space Heating • Custom Hot Water Heating 	\$100-\$225/MMBTU	\$70-\$200/MMBTU	<ul style="list-style-type: none"> • Heat Recovery Chillers • Heat Pump Chillers • HRV/ERV • WSHP • Waste to Energy Technologies

¹Project incentives cannot exceed 50% of the project cost for eligible measure(s) or 100% of each measure cost. Total incentives are capped at \$1,000,000 for all projects, per account per year.

**Let's work together to make
Heat Recovery a common
solution for building
decarbonization**

**Check out the Heat Recovery
Program page for new
resources**

<https://nysesda.ny.gov/All-Programs/Heat-Recovery-Program>

**For all program questions,
please email**

HeatRecovery@nysesda.ny.gov

