

Multi-Measure Retrofit Boosts Resiliency

\$10M+ Avoided CapEx
Affordable Housing Cooperative
New York, NY | Installed 2022

Challenge

~50-year old steam heating system and no capital budget for critical improvements.

The Co-Op required:

- Reliable on-site generation for 1,600 apartments
- Upgraded steam heating distribution system
- Resiliency during utility outages
- No up-front capital investment
- Reduced carbon emissions across the campus

Solution

Renew funded a 1.75 MW Combined Heat & Power (CHP) system.

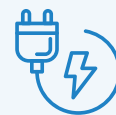
- Allowed co-op to focus on other core facility improvements while Renew led plant upgrades
- Upgraded steam heating distribution system for efficiency
- 20-year Power Purchase Agreement (PPA) with contracted long-term pricing and no capital outlay or added debt



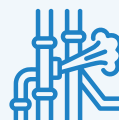
Technology



1.75 MW Combined Heat & Power (CHP) System



Black-Start / Islanding Capability



Steam Distribution Upgrades



Domestic Hot Water Pre-Heating

Outcome

- \$10M+ avoided CapEx
- Annual MT CO₂ reductions
- 7M+ kWh/yr electricity and 40,000 MMBtu/year thermal energy generated
- Energy and operational savings
- Resiliency during utility outages via islanding capability
- Share of demand response revenues



RenewEnergy
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