

Infographic

Increase Efficiency by Upgrading **NYC Steam Systems** for the 21st Century

Report by: Energy Efficiency for All & Steven Winter Associates, Inc.

• **Multifamily housing** is the largest building sector in NYC...



64%
of buildings over
50,000 ft²

76%
of those buildings
are heated with

steam



These outdated steam systems are **inefficient, waste energy,** & significantly contribute to NYC's **climate-warming pollution.**



• The EEFA report highlights:

- design and operation
- causes of inefficiencies
- savings recommendations



Turn Page for Suggested Upgrades Recommended in the EEFA Report...



potential savings:

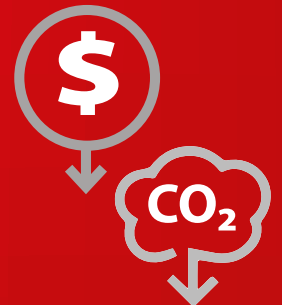


• **\$147 Million**
In Fuel/Maintenance Costs

Amount multifamily building owners could save annually in heating & maintenance bills with proper repair and upgrades.

• **312,000 Tons**
Of CO₂ Emissions Per Year

Citywide estimates based on scalable steam system upgrade completed on a 1,000 unit co-op in Brooklyn, NY.



For full report including all recommendations please visit: Lead.me/EEFA

heating.danfoss.us

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EEFA Report Recommendations for Steam System Upgrades:

1 Install Multi-Sensor Thermostatic Heat Controls:

Traditional steam heat controls do not monitor apartment temperature. Rather, they respond to external temperatures -- the colder it gets outside, the longer the boiler runs, resulting in overheating and uncomfortable residents. The solution? Replace with smart, multi-sensor heat controls that monitor inside temperatures like **Danfoss Thermostatic Radiator Valves**.

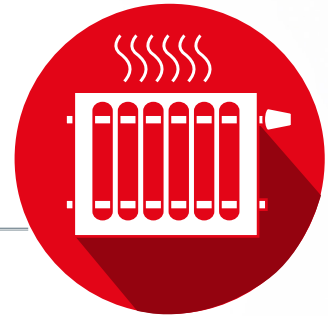
- **Reduce high energy bills**
- **Control tenant comfort levels**
- **Save money**
- **Happy tenants, less complaints**
- **Less maintenance**



2 Install Orifice Plates on all Radiators:

Almost all two-pipe steam systems use radiator traps that typically fail after a few years, resulting in underheating in some apartments and overheating everywhere else. The report recommends equipping each radiator with an orifice plate; a small metal plate about the size and shape of a bottle cap. These plates obviate the need for most radiator steam traps, never wear out, and help balance the steam system throughout the building.

- **Eliminate costly radiator traps**
- **Durable design - install & forget**
- **Helps balance system**



3 Leverage Energy Efficiency Programs:

Government incentive programs for multifamily buildings offer an additional return on investment for system efficiency upgrades, lower utility costs, create happier tenants, and increase occupancy rates. Some current programs include:

- **Con-Edison Rebate:** Up to \$45 rebate per TRV installed on one-pipe steam systems. Learn more: bit.ly/ConEdRebates
- **National Grid Rebate:** \$50 each, limit 20 per gas account. Learn more: bit.ly/NatGridRebate



Reach your energy efficient goals - call **1-888-DANFOSS (326-3677), option #3** or email: multifamilyefficiency@danfoss.com