The Cozy System

Radiator Labs

BuildingEnergy NYC | Innovation-Driven Solutions
October 2017
Why Steam Heat?

- **Overheating**
  - Wasted money
  - *Harmful emissions*

- **Resident Discomfort**
  - Complaints
  - Open Windows

- **Maintenance Inefficiency**
  - Lack of data
  - Time consuming
  - Costly

$7+ \text{ billion/year} \text{ is wasted due to overheating in steam heated buildings.}

-The Department of Energy
“Upgrades to buildings’ steam heating distribution systems represent one of the single largest potential reductions in GHG emissions of all cost-effective efficiency measures”

- NYC’s Roadmap to 80x50
Why Steam Heat?

NYC's Roadmap to 80x50

NYC GHG Emissions by Sector (2014)
The Cozy Solution

**The Cozy System** – a smart, insulating enclosure installed over existing radiators.

The Cozy controls the transfer of heat from the radiator to the room via a thermostatically-controlled fan.
The Cozy System

- **Fuel Savings up to 40%**
  - Reduced OpEx
  - Increases NOI & Asset Value
  - Utility Incentives Eligible

- **Resident Comfort**
  - Far Fewer Heating Complaints
  - Room by Room Control

- **Maintenance Efficiency**
  - Pinpoint Issues
  - Proactive Alerts
  - Reduced Overhead
The Cozy brings room temperature to desired setpoints, and keeps them there.

No more open windows, no more wild temperature swings.

- Reduced temperature volatility
  - Smart boiler control
  - Cozy releases heat on-demand
- Room by Room Control
The Data we’re gathering can be used to identify problems in real-time, including:

- Heat distribution problems
- Envelope problems
- Alerts (too hot, too cold)
- Emergencies (boiler fire-failure, zone-valve malfunctions, etc)