

# Columbia University uses 33% less oil with the Radiator Labs Cozy.



Watt Hall at Columbia University

## Quick Facts:

Units: 120

Units with Cozy: 116

Square Ft: 50,930

Project Cost/sqft: \$1.14

Annual Savings: \$32,000

Payback: 22 months

## Ask the Experts...

**NYSERDA says:**

“Three separate analyses demonstrate that the Radiator Labs units effectively **balances heating** throughout the building, **improves comfort**, and **saves energy**.”<sup>1</sup>

## Will the overheating stop? Yes!

“Comparison of the room temperature dataset before and after the Radiator Labs installation shows that **temperatures are reduced** in overheated spaces **and stabilized** between 70 to 76 degrees Fahrenheit.”

## Big Savings for Steam Buildings

Columbia University began testing the Radiator Labs Cozy in January 2014 at Watt Hall, which houses 164 students. By May of that year, the estimated savings for Columbia were \$32,000<sup>2</sup>.

By stabilizing the building's heat, the Cozy...

- Reduced boiler run-time by 41%.
- Reduced average room temperature 3.6° degrees.
- Produced #4 fuel oil savings of 8,212 gallons/year, or 50 gallons/occupant.

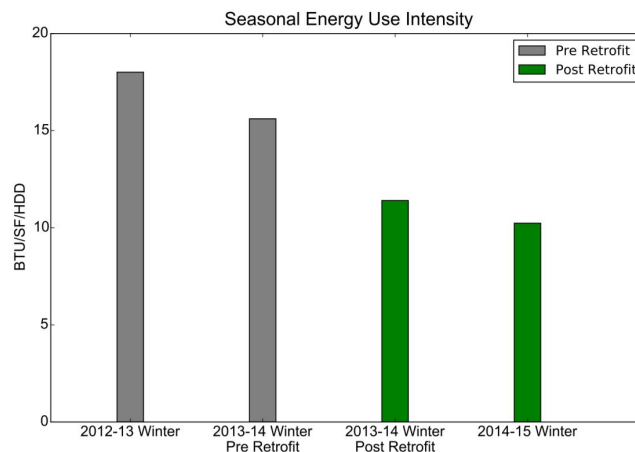


Figure 13: Energy Use Intensity (EUI) of the site before and after Radiator Labs retrofit. The building started as a low performer at 16.35 BTU/SF/HDD and increased performance to require only 10.92 BTU/SF/HDD input.

<sup>1</sup> Per [NYSERDA Energy Performance Validation Report](#)

<sup>2</sup>While Columbia switched to Gas (from Heating Oil #2) in September 2015, savings still tallied above \$15,000/year