

# EMERGING TECHNOLOGIES AND ACCELERATED COMMERCIALIZATION PROGRAM (ETAC)

## Project Brief: Radiator Labs Tests Energy-Saving, Insulated “Cozy”

### Background

Radiator Labs, a start-up company formed in March 2011, has commercialized an energy-efficient retrofit for radiator heating systems. Older buildings with steam or hot-water radiators often experience over- and under-heated spaces, leading to occupant discomfort. Windows are often opened to reduce overheating. The product is called the “Cozy” and provides provides occupants with local temperature control, greater comfort, and lower heating costs.

### Project Description

The “Cozy” consists of an insulated radiator enclosure, infrared temperature sensor, and a thermostatically controlled ducted fan. When heat is called for, the fan directs cool room air into the insulated enclosure, heating the air, and allows it to vent from an outlet near the bottom of the enclosure. When the fan is off, warm air is trapped within the enclosure, thus preventing overheating of the space. Radiator Labs has installed 190 units across two student dormitories at Columbia University. Based on initial savings results, the project is being expanded to additional sites.

### Benefits

The project is anticipated to save approximately 25% annually on heating costs, and to reduce boiler run time by up to 30%. With three out of every 10 commercial spaces being heated by steam or hot water radiators, the “Cozy” is expected to have large potential for facilities throughout New York State.

### Investment

NYSERDA	\$0 (Performance validation only)
Participant Team	\$133,500
Total	\$133,500

#### Lead Participant

Radiator Labs  
Brooklyn, NY

#### Other Team Members

Columbia University

#### Technical Consultant

ERS

#### NYSERDA Contact Information

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#### Contract Details

Start Date: October 2013  
Project Status: Underway

#### Last Update

February 2015

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The ETAC program supports multi-site demonstrations, provides indepth performance validation, and shares results through dedicated outreach.

