

Boston University Sustainability

Facilities Management & Planning
120 Ashford Street
Boston, Massachusetts 02215
sustainability@bu.edu



February 16, 2016

STARS Program
AASHE
1536 Wynkoop Street, Suite 100
Denver, CO 80202

RE: IN-2 Brownstone Energy Efficiency Pilot

To Whom It May Concern:

I am pleased to submit this letter of affirmation that the information presented for credit IN-2 is complete and accurate to the best of my knowledge. This is a forward thinking project to improve the energy efficiency of campus residences and similar building stock across the City of Boston. This study was implemented using BU's facilities as a living learning laboratory through a collaboration with Associate Professor of Mechanical Engineering, Michael Gevelber, graduate and undergraduate students, *sustainability@BU* and Facilities Management & Planning.

In Boston University's continued effort to reduce energy consumption and increase occupant comfort, this pilot study was conducted to explore low cost energy conservation measures to improve the University's 174 brownstone row houses. The study focused primarily on building heating systems and aimed to address overheating without having to perform building renovations. By tracking and testing 50 brownstones over the course of 2014-2015 winter, the research team was able to show overheating problems existed across all of the different heat systems and control types.

Boston University Facilities Management & Planning have now installed Wi-Fi-enabled thermostats in a small sample of brownstones to remotely monitor heat timer settings, and provide indoor temperature feedback. The framework established in this study allows Wi-Fi thermostats to be installed in brownstones across campus, reducing the amount of energy required to heat 74 residential brownstones on campus, and potentially 100 non-residential brownstones. The lessons learned may be leveraged to over 2,000 row houses in Boston and students gained deep real-world experience they will take with into their careers.

Sincerely,

Boston University



Dennis Carlberg, AIA, LEED AP
Sustainability Director