

Case Study for:  
**Brandeis University**  
Waltham, Massachusetts



Case Study:  
**Brandeis University**

## Case Study: Brandeis University

“We were able to vastly improve the quality of light by switching over to LEDs. Areas that were underlit before are now bright and welcoming while using less energy. We were able to replace some of the old fixtures with half as many LED fixtures due to their increased lumen output per fixture. Moreover, the LEDs will last longer, reducing the need for costly replacements in that problem area.”

-Mary Fischer, Manager, Sustainability Programs, Brandeis University



### OPPORTUNITY

Brandeis University, a medium-sized private university, based in Waltham, MA sought to vastly improve the quality of light throughout the campus and continue a focus on sustainability and energy efficiency. The Carl and Ruth Shapiro Campus Center (SCC) is located in the center of the university's campus and used daily by students, faculty, administration, alumni, and guests. The center, totaling 65,500 square feet, is comprised of study spaces, a theater, libraries, a café, lounges, a university bookstore, and student life offices. With an opportunity to save Brandeis University sought to partner with a solutions provider to assess an energy efficiency lighting retrofit.

### SOLUTION

Energy Source worked closely with the Brandeis University facilities management team throughout each phase of the energy savings project. The project began with an assessment from Energy Source which included evaluating the existing lighting, identifying the scope of work, and then proposing the recommended result. An installation of high-efficiency LED lighting was combined with advanced control systems including motion/occupancy sensors and dimming capabilities. The installation of LED lighting is expected to reduced Brandeis' annual lighting costs by 78%, replacing some of the old fixtures with half as many LEDs due to the increased lumen output per fixture. The new LED lighting will last an estimated lamp life of over 100,000 hours significantly reducing operating and maintenance expenses. Energy Source successfully managed Brandeis' retrofit project through completion, including procurement of incentives to achieve a payback of just under 5 years.

#### BEFORE



#### AFTER



### PROJECT BENEFITS



INCREASED LIGHT OUTPUT



IMPROVED SAFETY



REDUCE MAINTENANCE EXPENSES

### TURNKEY SERVICES

- Scope Development
- Budgeting
- Project Management
- Incentive Procurement