

WATTSTOPPER®

Application Type: Healthcare

Location: Boston, MA

Project Scope: Building for Transformative
Medicine at Brigham and
Women's Hospital

Designer: ESS Lighting & Controls



CASE STUDY

PROFILE

The Building for Transformative Medicine at Brigham and Women's Hospital is accelerating the translation of science into the clinical setting. The 14-story, 380,000 square foot (program space) facility is designed to promote collaboration and interaction to rapidly discover new medicines and therapies. The hospital is one of the most innovative healthcare projects in the country from its green design, construction, maintenance solutions, and lighting strategies.

THE CHALLENGE

The lighting project centered on specific areas of the facility, including hallways, corridors, lounges, general gathering areas, restaurants, cafes, as well as education and training rooms. Several objectives were laid out, including meeting building code requirements, providing access to natural light, and increasing energy and cost savings through daylight harvesting and time of day controls. Also, the controls system needed to integrate with other systems, such as the building management, shading system controls, and A/V systems via BACnet.

Incorporating exceptional lighting controls and adjustable lighting levels were important in creating a specific ambiance for each space. For example, delivering lower light levels in doctor's lounges to help create a more relaxed environment.

THE SOLUTION

Legrand and ESS Lighting & Controls worked closely with the hospital's construction team and key vendors to meet several lighting design objectives that focused on creating specific ambiances for spaces, improving the occupant experience for patients and staff, and increasing energy efficiency.

The Wattstopper Digital Lighting Management (DLM) platform and components, and the Lighting Control and Automation Panel (LCAP) series solution easily met lighting design goals. In addition, these solutions were able to expand with the construction changes – from room, floor, to whole building – eliminating the need to recreate the lighting design, implement any additional hardware, or tear down cables. The facility is expected to attain Leadership in Energy and Environmental Design (LEED) Gold certification.

QUOTE

According to Brigham and Women's Hospital, "The building is designed to provide as much access to natural light as possible and an open floor plan for collaboration will provide scientists with research spaces that foster creativity, productivity and a robust exchange of ideas."



VERTICAL MARKET

Healthcare



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