



January 8, 2016

To whom this may concern,

I am pleased to submit this letter in support of Eastern Connecticut State University's submission for an innovation point as part of their 2016 AAHSE STARS report.

In 2012, the CT Department of Energy and Environmental Protection obtained bond funds to finance energy efficiency improvements in state buildings. An Encelium Energy Control System for Eastern Connecticut State University's library was the first "Lead by Example" project approved.

Approximately \$710,000 was provided to Eastern for this project and installation was completed by July 2012. The project's projected savings were 1,440 million BtU/year and \$76,000/year, resulting in a 9.33-year return on investment.

The Encelium Energy Control System (ECS) utilizes six different energy management strategies in order to maximize energy savings in a building: smart time scheduling for zones not appropriate for occupancy sensors; daylight harvesting to adjust lighting levels based on natural sunlight, task tuning to avoid over lighting particular areas, occupancy control to automatically turn lights off when not needed, personal control for individuals to set their own workspace preferences, and variable load shedding by dimming to shave peak demand and reduce energy consumption. Encelium's Polaris software allows for easy access to control, program and monitor the system, from maintenance level down to personal office control, allowing occupants to adjust their lighting level as they see fit. In addition to lighting control, the ECS is connected to the building automation system, which reduces HVAC requirements in the library when the occupancy sensors indicate an empty room.

According to Eastern Connecticut State University, this energy controls system exceeded projected savings, resulting in a 22% energy consumption reduction in the first 6 months, equating to \$95,000 annual energy and maintenance savings, giving the project an 8.1 year payback period. Due to the success of this library installation, Eastern has installed the Encelium ECS in three other campus locations including the Gelsi-Young Building (administration) in 2012, the Student Center in 2013, and a the new Fine Arts Instructional Facility to be opened next week (January 2016). For more information about Encelium at Eastern please see the following link:

<http://www1.easternct.edu/sustainability/green-buildings/>

I believe the installation of this technology reflects Eastern's overall commitment to reduce energy and increase sustainability applications. Thank you for considering their application for an innovation point.

Sincerely,

David A. Kalafa

Policy Development Coordinator