Energy Project of the Year 2020:
National
The Heart Center LED Lighting Project

The Heart Center is a 206,000 square foot, 4-story medical building with an adjoining parking garage constructed in 2001. The majority of the lighting utilized within the building was produced by T8 fluorescent tubes, in addition to fluorescent “can” lighting.

The LED Lighting Retrofit Project was carried out between May 10 and July 30, 2018, replacing existing fluorescents with LED bulbs and fixtures. The total project cost was $47,122. Annual Electrical Savings was calculated to be $49,959. As a result of replacing fluorescent lighting with LED lighting, a 79% reduction in electrical cost was achieved (120,409 watts to 25,340 watts) with a 45% increase in lighting (8,570 foot candles to 12,425 foot candles measured 3 feet above the floor). The LED bulbs also came with a 10-year replacement warranty. Return on Investment (ROI) was calculated to be 0.94 years (11.3 months).

Additionally, the number of lighting-related maintenance calls dropped from an average of 103 per year (period 2015 through 2017) to 12 (in 2019). This resulted in an estimated annual maintenance cost reduction of $6,599.

About AEE

The Association of Energy Engineers, founded in 1977, is a nonprofit professional society of over 18,000 members in more than 100 countries. The mission of AEE is “to promote the scientific and educational interests of those engaged in the energy industry and to foster action for Sustainable Development.”

About AEE Awards Program

The International Awards are typically presented in conjunction with the AEE World Energy Conference & Expo: world.aeecenter.org, however this year will be presented virtually on Wednesday, October 14th.

The AEE Awards Programs shines the light on the important work that is being done in energy by individuals, organizations, agencies, and corporations. For more information, visit www.aeecenter.org/awards.