

Project Information:

Department: Alliant Energy Center Address: 1919 Alliant Energy Center Way Madison, WI 53713	Total project costs: \$81,929 Funding amount in current budget: \$0 Funding amount requested: \$81,929
Project Title: Coliseum Concourse LED Lighting Upgrade	
Project Location: Veterans Memorial Coliseum	
<p>Project Description: This project will replace the current T8 fluorescent light fixtures, that contain 1,832 32 watt fluorescent bulbs, in the concourse areas of all three levels of the Coliseum with LED fixtures. The arena level and second level concourses will have a total of 250 2'x4' LED flat panel fixtures installed. The main level, because of the different ceiling type, will have 95 LED surface-mounted wrap fixtures installed. The new LED fixtures are rated at 60 watts. In addition to the pure energy savings per fixture, we are able to reduce the total number of fixtures as a result of the better lighting technologies incorporated into the LED fixtures. As a result, this project is estimated to save a total of 110,738 kilowatts of power on an annual basis, which results in an annual utility savings of \$16,425. Based on an installed cost per fixture of \$206.50 per fixture, this project has a 4.99 year payback period. The LED fixtures are rated for 50,000 hours of life.</p>	
<p>This project moves the County toward meeting its Sustainability Principles by:</p> <ul style="list-style-type: none"> • Reducing CO2 Equivalency Green House Gases by 77.8 metric tons. • The CO2 Savings is equivalent to: <ul style="list-style-type: none"> ○ 8,757 gallons of gasoline consumed ○ 83,046 pounds of coal burned ○ 11.5 homes' electricity usage for one year ○ 2,759 incandescent lamps being switched to LEDs 	
<p>This project furthers the County's Sustainable Operations Plan goal of reducing the consumption of resources and by using resources most productively and sustainably throughout their lifecycles, from the point of resource extraction through material disposal. This project reduces solid waste across county operations. This project meets the objective of identifying and applying best practices to reduce resource consumption and waste production, as well as the objective of reducing solid waste that goes to the landfill from County operations and facilities.</p>	
<p>The county could build upon the outcomes of the proposed project to work toward greater sustainability by changing to eco-friendly LED fixtures in all of its facilities. This request is a direct result of the parking lot LED lighting upgrade that was done on the AEC campus which has resulted in decreased utility costs and far better lighting in the parking lots.</p>	
<p>The Alliant Energy Center's CFO will measure the outcomes of this project by the savings in the electricity and electric demand costs. Savings from this project will be difficult to measure given the annual changes in events held on campus and the electrical usage related to the different types of events. Based on the current LED lighting solutions available, this project should result in at least a 50% reduction in electricity usage and costs.</p>	
Contact person: Bill Franz	Phone: 267-3985 E-mail: franz@alliantenergycenter.com

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