

Project Information:

Please provide the following information (take as much space as you need to provide details):

Department: Alliant Energy Center Address: 1919 Alliant Energy Center Way Madison, WI	Total project costs: \$110,664 Funding amount in current budget: \$0 Funding amount requested: \$110,664
Project Title: Exhibit Hall and Coliseum Working Lights	
Project Location: Exhibition Hall – Exhibit Halls A-D, Coliseum	
<p>Project Description: The Exhibition hall has two sets of operations lights. One set is for a show once it has started and the attendees are in the building and the other set is what we call working or ingress lights. This proposal will replace all the current T-8 florescent fixtures in hall A-D and Coliseum with 232 LED flat panel high bay fixtures.. There are currently 394 florescent fixtures (788 T-8 bulbs) in these areas. These fixtures are operated 7 days a week. These are the fixtures that our staff uses during set up of a show or during normal working duties. With the replacement of florescent fixtures with LED fixtures not only will there be large savings in per fixture usage but this will allow us to only need to operate about half the fixtures during set up. These fixtures can be tied into the control system that was part of a past SMART fund project.</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 78.9 metric tons. • The CO2 Savings is equivalent to: <ul style="list-style-type: none"> ○ 8,873 gallons of gasoline consumed ○ 86,271 pounds of coal burned ○ 8.5 homes' electricity usage for one year ○ 788 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>	
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