

2018 Dane County Departmental SMART Fund—Round 2

Project Information:

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

Department: Department of Administration Address: 210 Martin Luther King Jr Blvd	Total project costs: \$35,000
	Funding amount in current budget: \$0
	Funding amount requested: \$35,000
Project Title: City County Building Point of Service Urinal Flush Upgrade	
Project Location: CCB men's restrooms on ground through fifth floor	
Project Description: Add point of service flush heads and operators to each individual urinal in the men's restrooms. Single timer flush equipment will be removed.	
Describe how the proposed project moves the county toward meeting the following Sustainability Principles. (See the guiding questions in the box below.) Responses to this section will be used to determine the relative level of sustainability for each project. • Reduce and eventually eliminate county government's contribution to fossil fuel dependence and to wasteful use of scarce metals and minerals; • Reduce and eventually eliminate county government's contribution to dependence upon persistent chemicals and wasteful use of synthetic substances; • Reduce and eventually eliminate county government's contribution to encroachment upon nature and harm to life-sustaining ecosystems (e.g., land, water, wildlife, forest, soil, ecosystems); and • Reduce and eventually eliminate county government's contribution to conditions that undermine people's ability to meet their basic human needs. Include in your description any estimated reductions of GHGs / CO2 equivalent emissions related to your proposal. Please use the following calculator to do this: http://www.epa.gov/cleanenergy/energy-resources/calculator.html The current means of flushing seventeen urinals in the men's restrooms is extremely antiquated and in need of current technology to increase efficiency. The current control uses a timer and will flush all of the urinals in a row with one valve every fifteen minutes during occupied periods whether they have been used or not. This is an extremely wasteful strategy that can consume up to 4.5 gallons of water with every flush. Using hands-free technology at each individual stall the new flush heads will only activate when they have been used and will only use 1.5 gallons. This three-gallon difference in the amount of water used on a single flush will add up to a great deal of water savings on a daily basis, which makes this a very sustainable project. This project accomplishes the goals objectives and strategies of the Water category of the Dane County Government Sustainable Operations Plan as it reduces water usage rates in a high water-use operation in a county-owned facility and contributes to water conservation by retrofitting county plumbing fixtures. Budget: Price for Operator and flush meter \$380 x 17= \$6,460 Price for custom chrome finish supply piping \$5,600 Price for plumbing contractor to install system \$17,940 Contingency @ 10% \$3,000 Project Management \$2,000 Total project cost= \$35,000	

Describe how the county might build upon the outcomes of the proposed project to work toward greater sustainability.	
This project would be considered to be in the low hanging fruit category since the savings and practicality are very obvious. Having this out of the way allows for ideas to expand into other building systems and use what is learned from this upgrade to generate new ideas.	
Does the proposed project include a strong sustainability education component? If yes, describe the educational component, who it will reach, and how it will be communicated.	
There is no formal education component to this project. There is however a very public aspect to these devices and people will notice that the technology in this older building is the same as they see in newer facilities. By modernizing heavily utilized areas it leaves an impression that the building is being maintained well.	
Does the proposed project pilot an innovative new sustainability-advancing technology in county operations and can it be demonstrated by the applicant department to hold promise for additional future applications in county facilities? If yes, describe the elements of the innovative technology being proposed.	
This technology is relatively standard equipment in new commercial construction and newer county facilities all have POS flush devices.	
Describe how your department will track and measure outcomes of the proposed project (i.e., annual cost savings, annual energy savings, resource use reductions, maintenance reductions, etc.). Include a timeline for measurement and reporting outcomes, and the staff member contact who is responsible for conducting the tracking and measurement and reporting back.	
It is very difficult to quantify how much savings these devices will provide as the usage is so uncertain. It is very safe to say that for the greater part of the day all of the urinals are not being used every fifteen minutes. The reduction in water consumption will be significant and can best be determined by using the Energy Cap program that tracks utilities. Water usage before and after the project's completion date should show what impact the project had on water consumption. This data will be collected by Mike Collins in Facilities Management.	
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Guiding questions for the project description. Applicants should include a detailed discussion of the work planned and/or the technical approach used that illustrates what the project will achieve and how it will comply with and implement the county's four sustainability principles and the Dane County Government Sustainable Operations Plan. The following questions provide a guideline to help your department frame and describe the project. Please feel free to address additional issues.

- Will this project reduce wasteful dependence upon fossil fuels, underground metals, and minerals?
- Will this project ensure that the smallest possible amount of resources is used?
- Has the proposal included green procurement standards for required goods, materials, and services?
- Will this project lead to a decrease in greenhouse gas emissions?
- Will this project reduce the need for fossil fuel-dependent transport, increase public transit use, or increase walking and bicycling?
- Will this project support businesses that emit less polluting or hazardous substances to air, water, soil and ecosystem services?
- Will this project raise awareness about waste prevention and recycling and will it help reduce the amount of waste going into the landfill?
- Will this project still be relevant when looking at the demographic changes ahead?
- Will this project consider the most up-to-date technology for recycling and waste reduction?
- Will this project use products that are non-polluting or come from an environmentally friendly source that will reduce negative impacts of the project on the environment, e.g., FSC wood, non-toxic, and non bio-accumulative chemicals?
- Will this project avoid the risks of water, air, and soil contamination?
- Will this project support the provision of environmental and social services in a certain area (e.g., flood prevention, water purification, air cleaning)?
- Will this project be beneficial in helping the county to adapt to the effects of climate change (e.g., changes in precipitation, flood and drought risks, heat emergencies, etc.)?
- Is this project avoiding negative impacts on water bodies, wetlands, etc., and is this project supporting the establishment and management of protected areas in water bodies, wetlands, etc.?
- Is this project proposing activities to raise awareness about water scarcity, water conservation, or water recycling and will this lead to an improvement of the water quality of a certain water body?
- Will this project still be beneficial once the funding is used and what, if any, public funding will need to be used for ongoing maintenance?
- Will this project support jobs in the eco-technology field and/or does this project include training for relevant stakeholders in renewable energy and other clean and sustainable technology?
- Has this project developed a strategy for measuring anticipated outcomes of the project?
- Has this project developed a strategy for how to disseminate results or best practices?
- Will this project improve equity outcomes for everyone?
- Will this project improve access to community services and facilities for all people of the community?