PARTICIPATORY BUDGETING

NORTHWESTERN

OUT WITH OLD HALOGENS, IN WITH THE NEW LEDS AND MOTION DETECTORS IN NORRIS

DESCRIPTION Norris' lighting system is antiquated and remains on through the night, wasting unnecessary energy. We aim to switch over to energy-saving LEDs equipped with motion detectors.

NEED Based on ASG Sustainability Committee's audit of Norris, less than 12% of bulbs are LEDs, a highly efficient bulb type which consumes 80% less energy than traditional halogen bulbs.

COST $350 to help create a supply of LEDs and motion detectors in collaboration with Norris facilities.

OUTCOME Switching from energy-inefficient halogen lights to LED lighting with motion detectors at Norris will yield substantial savings for the university, recouping the initial investment in just a few years.

SOLUTION We are undertaking an audit in partnership with the Norris administration and technical team (expected completion by April 2024). Following the audit's conclusion and the subsequent discussion of findings with Norris administration, we will proceed with the acquisition and replacement of eligible lighting structures with LEDs.

IMPLEMENTATION The audit will inform us of how many halogen and fluorescent lights to replace with LEDs and motion detectors. ASG Energy Efficiency Subcommittee will work with Norris administration (Corbin Smyth) and facilities (Dan Foley) to finance the supply of new lighting. Once bought, Norris Facilities will install the new lighting with assistance from Energy Efficiency Subcommittee.

OUR RESEARCH Our audit reveals that less than 12% of Norris' lighting fixtures are equipped with LED technology. Considering the LED energy consumption and hour usage of lighting in Norris, our deployment of LEDs and motion detectors have the capability to reduce Norris' energy consumption by over 80%. In the past, we have successfully reduced energy consumption in Locy and Fisk with LED retrofits.

ENERGY EFFICIENCY

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