

# RCx Update FY18

Since August 2007, the Retrocommissioning (RCx) team has completed eleven years of operation on campus in over 70 campus buildings covering almost 10 million square ft. of campus space. We have avoided more than **\$64M** in utility costs considering the campus fully loaded utility rate or more than **\$56M** considering the campus variable utility rate. We continue to accrue and maintain significant energy usage reductions (**average of 27%**) on our retrocommissioned buildings. This rate of energy reductions has been generally maintained over the years. More investment in preventative maintenance and larger projects will be needed going forward to achieve larger energy conservation results.

The newer items we are working on this year include a focus on labs and fume hoods. Over \$20M per year are spent on utilities in campus lab buildings with an average fume hood operating cost of \$3k-5k/year. There are over 1700 fume hoods on campus and significant dollars can be saved if we can get the cooperation of users to shut off fume hoods or identify fume hoods which are no longer in use. Stay tuned for a **Campus Green Labs** program to take shape in FY19 in concert with the OVCR's office and the ISEE group.

We have had good success this year in working with the auxilliary units such as the Illini Union, McKinley and the Parking Dept. Building temperature control upgrades and lighting upgrades in parking structures have significantly reduced their respective utility bills.

Over the past several years, we have been working with various campus constituents in order to reduce energy consumption in several buildings and to resolve various maintenance problems. We would not be as successful as we have been without **their participation** in the retrocommissioning process. Such cooperation is imperative to achieve remarkable results. **Together**, we have implemented significant energy savings schemes in almost every building. If there are energy conservation items that warrant attention, please drop me an email [khelmink@illinois.edu](mailto:khelmink@illinois.edu).

The following pages show some of the impressive results the University has accomplished. Retrocommissioning is grateful to join forces with the many other energy conservation efforts in motion on campus. We hope that FY19 will prove to be another rewarding year.

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P.S. Our RCx web page can be found at: <http://www.fs.illinois.edu/retro>