

RCx Update FY16

The Retrocommissioning (RCx) team has completed nine years of operation on campus in more than 60 campus buildings covering over 8 million square ft. of campus space, having begun our work in Aug. 2007. We have avoided utility costs of **over \$47M** considering the campus fully loaded utility rate or **\$39M** considering the campus variable utility rate. We have also secured millions of dollars in DCEO grants in the past years, including \$1.5 million in FY16. 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 for 8+ years. More investment in larger projects will be needed going forward to achieve larger energy conservation results.

The newer items that are working on this year include a focus on labs and fume hoods. Probably \$5-8M per year are spent on campus labs. 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 FY17 in concert with the ISEE group.

Over the past several years, we have been working with various campus constituents in order to reduce the 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.

We appreciate the support of various groups within Facilities and Services to accomplish a plethora of tasks related to the maintenance of the buildings: to secure deferred maintenance funding for larger projects as they are identified; to secure engineering support for spin-off projects that require further development; and to assist in identifying funding sources to complete the projects.

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 FY17 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>