



# VET MED ENERGY EFFICIENCY

COMMUNICATIONS BULLETIN

## FOR MORE INFORMATION:

On behalf of the campus Facilities and Services team and Energy Systems Group (ESG), we would like to thank the students, staff and faculty at the Veterinary Medicine Complex for their patience, collaboration and engagement throughout the implementation of the Vet Med energy efficiency and building modernization project.

For a summary of the energy efficiency and building improvements implemented, please visit: [www.energymanagement.illinois.edu/energyinitiatives\\_accomplishments.cfm](http://www.energymanagement.illinois.edu/energyinitiatives_accomplishments.cfm) or [www.energysystemsgroup.com/vetmed](http://www.energysystemsgroup.com/vetmed)

Thank you,  
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## ENERGY CONSERVATION MEASURE (ECM) SPOTLIGHT AIR HANDLING UNIT REPLACEMENTS

The Vet Med complex is heated, cooled and ventilated with air handling units located throughout the buildings. These units represent a significant portion of the total energy utilized in the complex. Most of the units in the Large and Small Animal Clinics are original to the construction of the building and have exceeded their useful lives. Additionally, the units had operational issues due to deferred maintenance. The age and maintenance issues made them good candidates for replacement.

New units were installed as part of the Vet Med ESCO project to reduce maintenance and energy costs. The new units are installed in centralized locations and are sized to serve multiple areas, which has reduced the total number of air handling units needed from ten to four. The new units utilize enthalpy wheel heat recovery. This allows the waste

heat to be recovered by as much as 75%, thereby significantly reducing the energy costs.

Additional energy efficient technologies were utilized in the new units including variable frequency drives, pressure independent control valves, and direct digital controls. All units were installed while the facility was fully functional in a manner that minimized inconvenience to students, faculty, staff and patients.

The original fume hoods were individually exhausted. As part of the project all fume hoods were centrally exhausted and ran through a heat recovery coil. The new system maximizes efficiency and reduces maintenance requirements.

