

**By: John
Kamman II**

*John currently serves
as an energy
engineer for IUPUI.*

*IUPUI CFS Energy
Management 1220
Wishard Boulevard
Room 218
Indianapolis,
Indiana 46202*

*P: (317) 278-4868
Fax: (317) 274-4599*

E-mail John at:
jkamman@iupui.edu

**Back to the
Homepage**

Qualified Energy Savings Project Update

What is a qualified energy savings project (QESP)? A QESP is a means by which the university can implement projects that are designed to save energy. The state legislature has enacted a bill that allows each state university to raise \$15 million per campus through the sale of bonds that will be paid back from the savings achieved from the energy projects. The energy projects must pay back in ten years or less. The projects can be done in phases over time until the total of \$15 million is reached.

Indiana University has begun implementing QESP at several regional campuses. Here at IUPUI, four buildings were chosen for these projects. The total cost for the projects is approximately \$11 million. The savings for the projects is approximately \$1.25 million. Two of the four buildings are laboratory buildings: Medical Research and Library and Gatch Clinical. These projects were managed by University Architect's Office (UAO) and Campus Facility Services (CFS).

For Gatch Clinical, three energy conservation projects were implemented. The first project added steam metering for the building. This metering will allow for better analysis of the building usage and the impacts of future energy saving projects. It can also be used for building troubleshooting and maintenance. The second project was the installation of steam condensate heat recovery. Heat exchangers take the heat remaining in the condensate and transfer it to hot water return lines. This will reduce the amount of steam needed to heat the hot water and reduce the amount of domestic water needed to temper the condensate. The final project in Gatch was lighting retrofits. This project replaced 32 watt fluorescent lamps with new 28 watt lamps and installed occupancy sensors to turn lighting off when unoccupied.

For MRLB, six energy conservation projects were implemented. The first project was replacement of the cooling coils in air handling units 5 and 6. This project will improve reliability and space comfort. Related to the coil replacement,

new control valves were installed on the chilled water on all air handling units in the building. These valves will improve the control of the chilled water flow in the building. The next project was the replacement of controls in the labs. This project replaced older, pneumatic type components with newer, digitally controlled components. This will increase reliability and control. The next project replaced a chilled water meter that had failed. Heat recovery from steam condensate from air handlers 5 and 6 was next. This project takes heat out of steam condensate and transfers it to the heat recovery system in order to preheat outside air for the building. Finally, more efficient water fixtures were installed in the restrooms throughout the building.

More projects like this are planned. CFS also continues to strive to reduce energy use on campus. If you have questions or ideas, please email John Kamman at jkamman@iupui.edu.



Lab Notes is a quarterly publication by the IUPUI Office of Environmental Health and Safety. Lab Notes is designed, edited and published by K. Lee Stone.

"Don't Learn Laboratory Safety by Accident!"