



an ECM company

Case Study: Fume Hood & Kitchen Hood Retrofits

ECU replaced 13 fume hoods and added redundancy without increasing the capital budget.

Situation

TEL supported an ESCO partner on this campus project which involved both laboratory and kitchen solutions.

The laboratory fume hoods were old with no capital budget for replacement. The discharge and make-up air vents also needed an over-haul. The kitchen hoods were operational but energy inefficient.

The combined project delivered almost \$85,000/year in energy savings and addressed some major deferred maintenance concerns of the University.

Project Scope

TEL replaced all thirteen (13) fume hoods, saving substantial energy. Laboratory exhaust discharge was converted to stainless steel stacks and the fan system was redesigned to create redundancy for maintenance purposes. The kitchen exhaust systems received hood controllers that vary of amount the exhaust based on the demand of the equipment kitchen.

These retrofit projects simultaneously increased lab safety, reduced energy costs, maintenance costs, and improved airflow reliability throughout these facilities.



East Central University



Client:

Regional Public University

Client Location:

Ada, OK

Project Goals:

Save energy and improve safety

Simple Payback:

4.6 years

Annual Energy Savings:

\$84,994/yr

New Fume Hood Systems:

- **Auto Sash Controls**
- **Dampers with Actuators**
- **Exhaust Pressure Controls**
- **MUA Pressure Controls**
- **Supply Damper VAV Box**
- **Summations Units**

"We chose TEL to assist us with lab modifications at ECU, because they delivered the right solution at the right price. Once again they delivered a great project on time and within budget. Our client is extremely pleased."

Fred Travis, Operations Manager
Johnson Controls

TEL provides laboratory solutions that deliver a safer workplace environment, increased energy efficiency, and improved operational performance. We are the North American affiliate of TEL, a world leading manufacturer of laboratory airflow controls and monitors. In America, TEL provides engineered turn-key retrofits (including retro-commissioning), certification services, relocatable fume hoods, modular laboratories, and the latest TEL products for new and existing laboratories. For more information, please visit www.tel-americas.com, or call us at 920.267.6111.