

# ENERGY AUDIT & PLANT ASSESSMENT

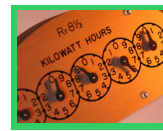


CINCINNATI PROCESS TECHNOLOGIES



CPT determines operating cost of machinery, pumping systems, fans, compressed air systems and will identify easy to implement energy conservation strategies.

CPT will develop a detailed energy analysis to help initiate an energy cost control program in your company.



Energy analysis consists of two phases: acquiring and analyzing data.

- Acquiring data helps quantify energy flows into a facility, energy use and energy purchase costs.
- Analyzing data identifies energy efficiency opportunities. These opportunities can be prioritized based on cost and business activities.

## Motors, Pumps and Fans

Motor-driven equipment accounts for 64 percent of the electricity consumed in the U.S. industrial sector. Motor systems consume approximately 290 billion kWh per year in the most energy-intensive industries. Improvements to motor systems in these industries could yield dramatic energy and cost savings. The key to these savings is applying energy-efficiency equipment or implementing sound energy management practices.<sup>1</sup>

## Compressed Air

Compressed air systems account for \$1.5 billion per year in energy costs in the United States. 70% of all manufacturers use compressed air as a power source for tools and equipment used for pressurizing, atomizing, agitating, and mixing applications. Optimization of compressed air systems can provide energy efficiency improvements of 20 to 50 percent.<sup>2</sup>

## Lighting

Lighting accounts for an estimated 20 percent of all electricity use in the U.S. Of this 20 percent, 80 percent is consumed by industries, businesses, offices and warehouses. In a typical 50,000 square foot commercial building, about \$45,000 is spent annually on energy for lighting. Reducing the amount of energy used for lighting at your facility may save you money.<sup>2</sup>

(1) [www1.eere.energy.gov](http://www1.eere.energy.gov)

(2) [www.mntap.umn.edu/energy](http://www.mntap.umn.edu/energy)

### Cinnati Process Technologies

4425 Appleton Street  
Cincinnati, OH 45209  
phone: 513-619-7415  
fax: 513-871-8495



[www.cinprotech.com](http://www.cinprotech.com)

email: [dbales@cinprotech.com](mailto:dbales@cinprotech.com)

email: [jobryan@cinprotech.com](mailto:jobryan@cinprotech.com)