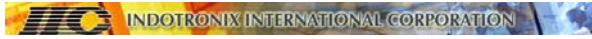


# Energy Efficient Lighting and Controls

## Reduce Energy Consumption And Improve Comfort



**Indotronix International Corporation's** facility is located in Poughkeepsie; NY is a regional commercial office building that also is a training center for new information technology employees. Located in a New York State economic development zone, the facility originally was a Wallace's department store built during the 1860's. The facility has undergone major renovation to include a new heating system and major internal cosmetic improvements. The facility provides lighting, heating, air conditioning and hot water for the facility utilizing standard efficient technologies. The New York State Energy Research and Development Authority worked with Indotronix International Corporation to help reduce building operational costs and save energy.

### Project Objectives

Evaluate the existing methods of providing lighting, control, heating, ventilation and the production of domestic hot water to determine more efficient and cost effective equipment alternatives. Standard motors, magnetic lighting ballasts and electric domestic hot water heaters were the largest users of electricity. Additionally, due to employee activities, the opportunity to control lighting using occupancy controllers was apparent. Through NYSERDA's Technical Assistance program and as a result of being an EDZ certificate holder, Indotronix received 75% of the engineering study costs to study energy efficiency improvements.

### Measures Recommended

NYSERDA's study concluded that through four recommended energy conservation measures that included: energy efficient lighting, lighting controls, energy efficient motors and through the control of the electric domestic hot water heaters the facility could reduce electrical consumption by 39% and reduce facility utility costs by over 25%.

- Cost of Recommended Measures - \$73,069
- Energy Savings - \$16,587
- Simple Payback Years - 4.41

### About the Technical Services Program

NYSERDA's Technical Assistance programs identify opportunities for New York businesses to increase competitiveness by using energy more efficiently and improving productivity. This project was funded under NYSERDA's New York Energy Smart program, which helps utility customers take advantage of opportunities to save energy that are emerging as a result of the newly deregulated, competitive utility industry. For more information about this and other NYSERDA programs, call Ms. Jaime Ritchey at (518) 862-1090, ext. 3517, or visit our website at [www.nyserdera.org](http://www.nyserdera.org)