Case Study: Office Building

Advanced Energy Dynamics is an engineering firm that reduces electrical consumption while improving motor reliability.





■ Goals

▶ REDUCE KWH CONSUMPTION

► LEED Certification

This property management firm needed to reduce electric costs while accruing LEED points. They had completed other energy projects and were out of effective options to achieve their corporate goal of 20% by 2012.

Results

Project Cost: \$140,300

Annual Savings:

kWh 13% \$62,300 Motor Related (R+M) 28% \$12,500

Payback (kWh only): 27 Months

Payback (total savings): 23 Months

ROI %: 44%

Increased Property Value: \$1,000,000

Additional Results

OPERATIONAL

- ✓ Lower Running Temperature of Motors by 34%
- ✓ Lower Incident Rate of Motor Failure
- ✓ Increased Tenant Satisfaction with Air Temperature
- ✓ Extended Lifespan of Motors
- Opportunity for Proactive Maintenance Programming

ENERGY CONSERVATIONAL

- ✓ True Energy Savings Reduction of Carbon Footprint
- "Green "marketability to tenants"
- Applicability to LEED Certification

■ Electrical Load Mix



