



F.D. LAWRENCE ELECTRIC CO.

Electrical Distribution, Automation and Lighting Equipment

www.fdlawrence.com

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Energy Efficiency



F.D. LAWRENCE ELECTRIC CO.

ELECTRICAL DISTRIBUTION, AUTOMATION AND LIGHTING EQUIPMENT

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An Overview of Capabilities and Sustainability

Energy Efficiency and Renewable Energy

The F.D. Lawrence Electric Company is committed to reducing the energy usage and power consumption of our customers whether residential, commercial, industrial, municipal, or educational facilities. Our mission is to educate you on the latest technological energy efficient products and electrical solutions to reduce your overall energy usage and expense.

F. D. Lawrence is committed to assisting the Department of Energy in reducing America's dependence on foreign oil and to developing energy efficient technologies for buildings, homes, transportation, power systems and industry.

Our combined mission is to strengthen America's energy security, environmental quality, and economic vitality in private-public partnerships that: enhance energy efficiencies and productivity; bring clean, reliable and affordable energy technologies to the market place, and make a difference in the everyday lives of Americans.

Resources and References

For additional information on technology or services that may be beneficial to your current or upcoming project, please contact a member of the F.D. Lawrence sales team.

Information on specific initiatives, programs and technology can also be found at the following web sites:

www.fdlawrence.com

www.energy.gov

www.ashrae.org

www.usgbc.org

www.duke-energy.com

www.dpandl.com

www.ippower.com



Incentives to Upgrade

Utility Rebates

Utility rebates may be available to offset the cost of your upgrade. Many of these rebates are based upon energy use reductions achieved by upgrading equipment in your facility.

LEED Certification

Leadership in Energy and Environmental Design Green Building Certification

Tax Deductions (EPACT)

This act offers tax deductions in some cases, when using energy efficient technologies in your facility.

Grants

Federal and State grants may be available for qualifying businesses as well.

Community Leadership

You can take an active role in environmental responsibility by doing what is right for your company as well as for the environment.

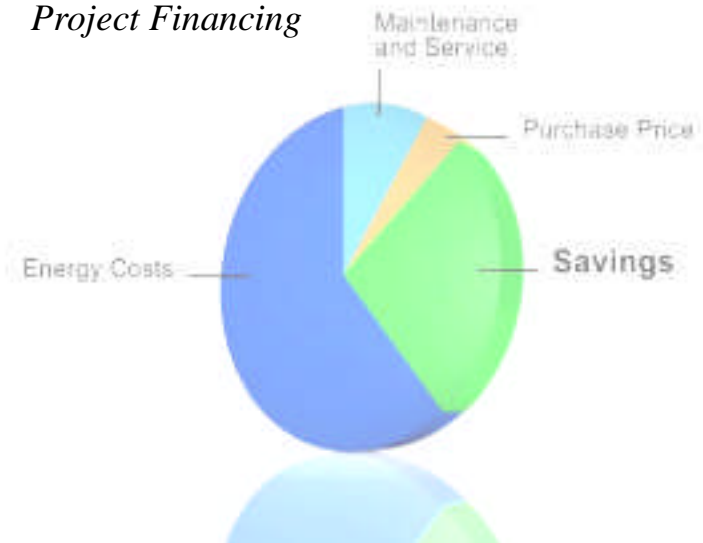


F.D. Lawrence Electric Company Energy Savings Services and Support

The F.D. Lawrence Electric Company offers the services and support that you need to make energy efficiency and reduced energy costs a reality for your organization. We offer in-house and factory integrated options relevant to the size and scope of your project.

Available services include:

- *Energy Audit (full or partial)*
- *Lighting Audit*
- *Payback Analysis*
- *Lamp Recycling*
- *Project Financing*

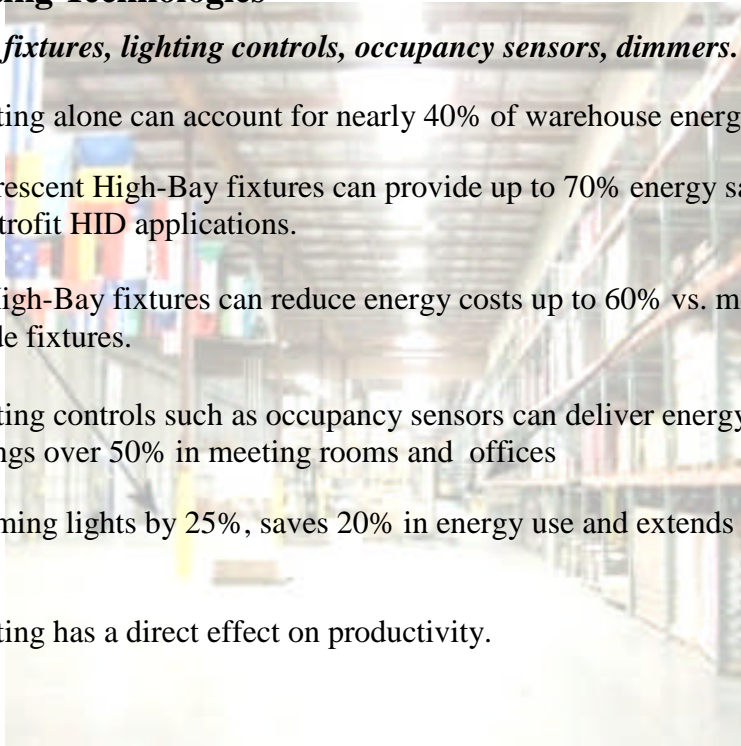


Energy Efficient Lighting

Lighting Technologies

T8/T5 fixtures, lighting controls, occupancy sensors, dimmers.

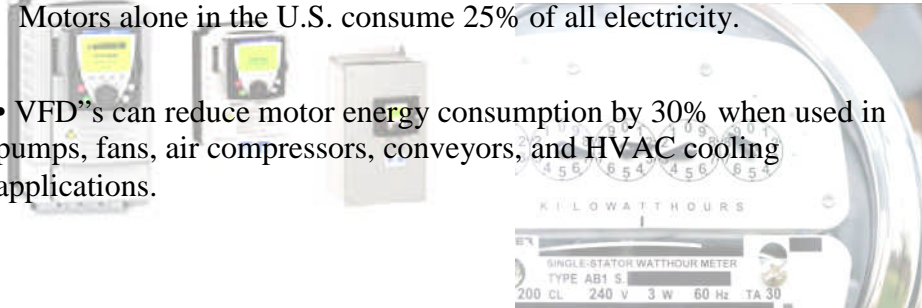
- Lighting alone can account for nearly 40% of warehouse energy use.
- Fluorescent High-Bay fixtures can provide up to 70% energy savings in retrofit HID applications.
- T5 High-Bay fixtures can reduce energy costs up to 60% vs. metal halide fixtures.
- Lighting controls such as occupancy sensors can deliver energy savings over 50% in meeting rooms and offices
- Dimming lights by 25%, saves 20% in energy use and extends lamp life.
- Lighting has a direct effect on productivity.



Energy Efficient Motor Control

Variable Frequency Drives

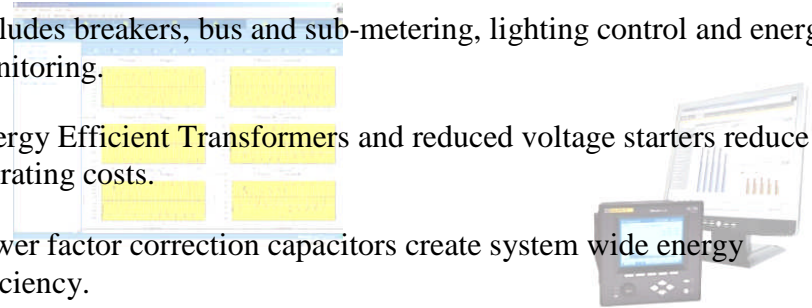
- Industrial motors consume, more than 60% of all industrial electricity. Motors alone in the U.S. consume 25% of all electricity.
- VFD's can reduce motor energy consumption by 30% when used in pumps, fans, air compressors, conveyors, and HVAC cooling applications.



Energy Efficient Power Distribution

Integrated Equipment, Energy Efficient Switchgear.

- Includes breakers, bus and sub-metering, lighting control and energy monitoring.
- Energy Efficient Transformers and reduced voltage starters reduce operating costs.
- Power factor correction capacitors create system wide energy efficiency.



Evolving Technologies

- LED - Light Emitting Diode, primarily used to replace incandescent lighting and for area lighting applications. They provide a sustainable, economical, and environmentally friendly lighting source.
- Inductive Lighting - Inductive lighting modifies fluorescent lamp technology to provide energy saving opportunities in environments not suited for LED's or traditional fluorescent lighting.
- Wind Turbines - Wind turbines and generators are increasingly being used in business and residential applications to reduce overall energy costs.
- Solar Energy - Sunlight can be converted into electricity using photovoltaics (PV). PV has been used mainly to power small to mid-sized applications.

