

SAMPLE SCREENSHOTS OF SOFTWARE

Energy Saving Calculator

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Lighting

Item: [5 HP Conveyor Motor](#) Energy source: [Electricity](#)
 Location: [Washer](#) Number of units: [1](#)
 Annual Cost: [\\$3,500](#) Hours per week: [80](#)

Other Opportunities

Equipment
 Utility Incentives
 Marketing Resources

Calculator: Motor Utilization - Use less often and/or reduce HP

This calculator helps you determine the most efficient option for reducing the operating time of a motor and/or replacing it with a lower HP motor.

Opportunity title: [Lower conveyor run time from 80 to 20 hours per week](#)

Enter the existing motor conditions

Motor Horsepower	Annual kWh saved	Output - Savings
5	11,196	11,196
Motor Efficiency: 85%	Annual electricity cost savings: \$996	
Idle load consumption: 10%	Annual Tonnes of GHG reduced: 2.02	
Hours per week reduced: 60		
Weeks per year operating: 50		
Energy cost per hour (from db): 0.088		

Action

After seeing calculations

put in 'to do' hopper
 put in 'further explore' hopper
 reject this project for now

Upon completion

tag as completed
 allow for internal case study
 allow for external case study

Automatically calculate GHG emissions while tracking costs

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Energy Bills

Date	Cost (\$)	CO2e (kg)
February 2009	\$19,090.69	192,461.42
January 2009	\$23,290.23	202,352.55
	\$42,380.92	394,813.97

Year	Total	CO2e (kg)
2009	\$42,380.92	394,813.97

Yearly Energy Costs

Yearly Carbon Footprint

Energy Summary Costs

CO2e Summary

Learn about saving opportunities

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Lighting Opportunity

Item: [40 watt ceiling light fixtures](#) Energy source: [Electricity](#)
 Location: [Front Office](#) Number of units: [125](#)
 Annual Cost: [\\$2,500](#) Hours per week: [40](#)

Other Opportunities

Equipment
 Utility Incentives
 Marketing Resources

Opportunity Calculators

Remove bulbs
 Change bulbs
 Turn lights
 Install
 Something

Lighting 101 [print PDF version](#)

Introduction
 Lighting in an industrial facility has an effect on both energy consumption and on productivity of the employees. A plant with a well-designed lighting system will be both energy efficient and a pleasant place to work. From a productivity standpoint, lighting design must take many factors into consideration.

Candle Power
 Just as we saw that refrigeration was measured based on what is replaced, (ice) lighting is measured based on a common wax candle. The measurement is of the luminous intensity in a horizontal direction and is the measurement of the light of a lamp as its origin.

Lumen
 A lumen is the light equivalent of pressure. One lumen is the amount light that falls on a square foot of a sphere that is one foot above a candle (or a light of one candle power). Lumens are important to us as we look at the energy input versus light output.

Foot-candle

Case Studies

XYZ Incorporated saves \$45,000 in warehouse
 Jones Stamping saves \$32,000 by changing bulbs
 Smith Plastics saves \$12,000 by educating employees

Name: _____
 Title: _____
 Company: _____
 Phone: _____
 Fax: _____
 Email: _____

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For more information on the program, please submit your contact information to APMA by fax (416) 620-9730 or contact Peter Corbyn at pcorbyn@apma.ca

APMA Energy Efficiency Program

APMA ENERGY EFFICIENCY PROGRAM

SAVE ENERGY COSTS AND REDUCE GREENHOUSE GAS EMISSIONS



APMA
 THE VOICE OF THE AUTOMOTIVE
 ORIGINAL EQUIPMENT SUPPLIERS IN CANADA

In Partnership with Natural Resources Canada

SAVE ENERGY COSTS AND REDUCE GREENHOUSE GAS EMISSIONS

APMA and Natural Resources Canada (NRCan) are working together to help members reduce their energy costs and greenhouse gas emissions. Most APMA members should save at least 5% to 7% of their energy costs with minimal expense through this program.

Benefits include:

- Cost Savings
- Improved energy efficiency
- Reduced greenhouse gas emissions



PROGRAM BENEFITS

- Save energy and money, focus on quick payback opportunities
- Improved energy efficiency
- Free use of groundbreaking energy management online software developed by APMA
- Save time and money in investigating savings opportunities
- Monitor greenhouse gas emissions with minimal effort

PROGRAM FEATURES

- In-plant energy assessment by experienced engineer
- Secure online software that provides inventory of energy consumption, identifies savings opportunities and manages energy related projects
- Software includes about 30 calculators
- Use of real time energy use monitors



RESULTS

To date, six APMA member facilities have participated in this program and no less than \$35,000 in low cost to implement savings have been identified, including one facility that learned of over \$200,000 in savings with virtually no cost to implement.

NEXT STEPS

This program is available at minimal cost for the first 24 facilities that sign up, thanks to our partnership with Natural Resources Canada Office of Energy Efficiency. Six have started, leaving room for 18 more eligible facilities.