

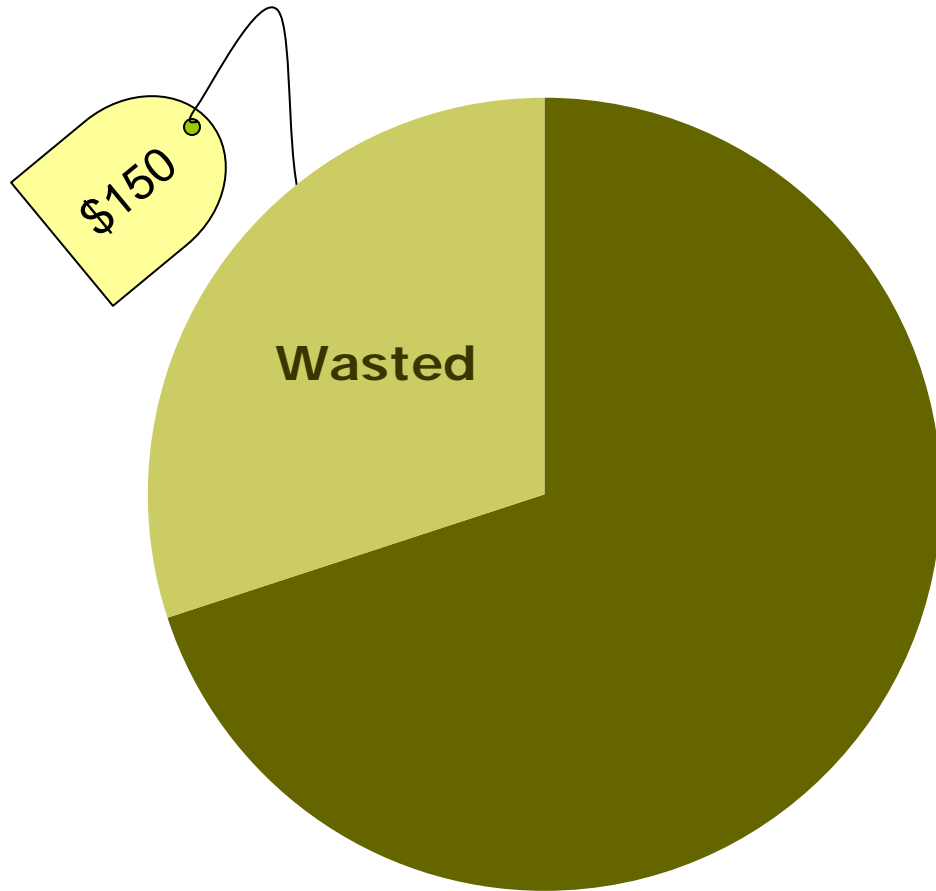


Energy Efficiency

It's Easier Than You May Think



Saving Energy – The Potential



Energy Star estimates that 30% of energy used in buildings is wasted.

A utility customer that spends \$500 per month on energy bills could save \$150 per month.



Saving Energy – More Potential

LOW-cost investments with a payback of 2 - 3 years should result in an energy savings of 5 to 15% per year.

MEDIUM-cost investments with a payback of 3 - 5 years -- 15 - 30% energy savings per year.

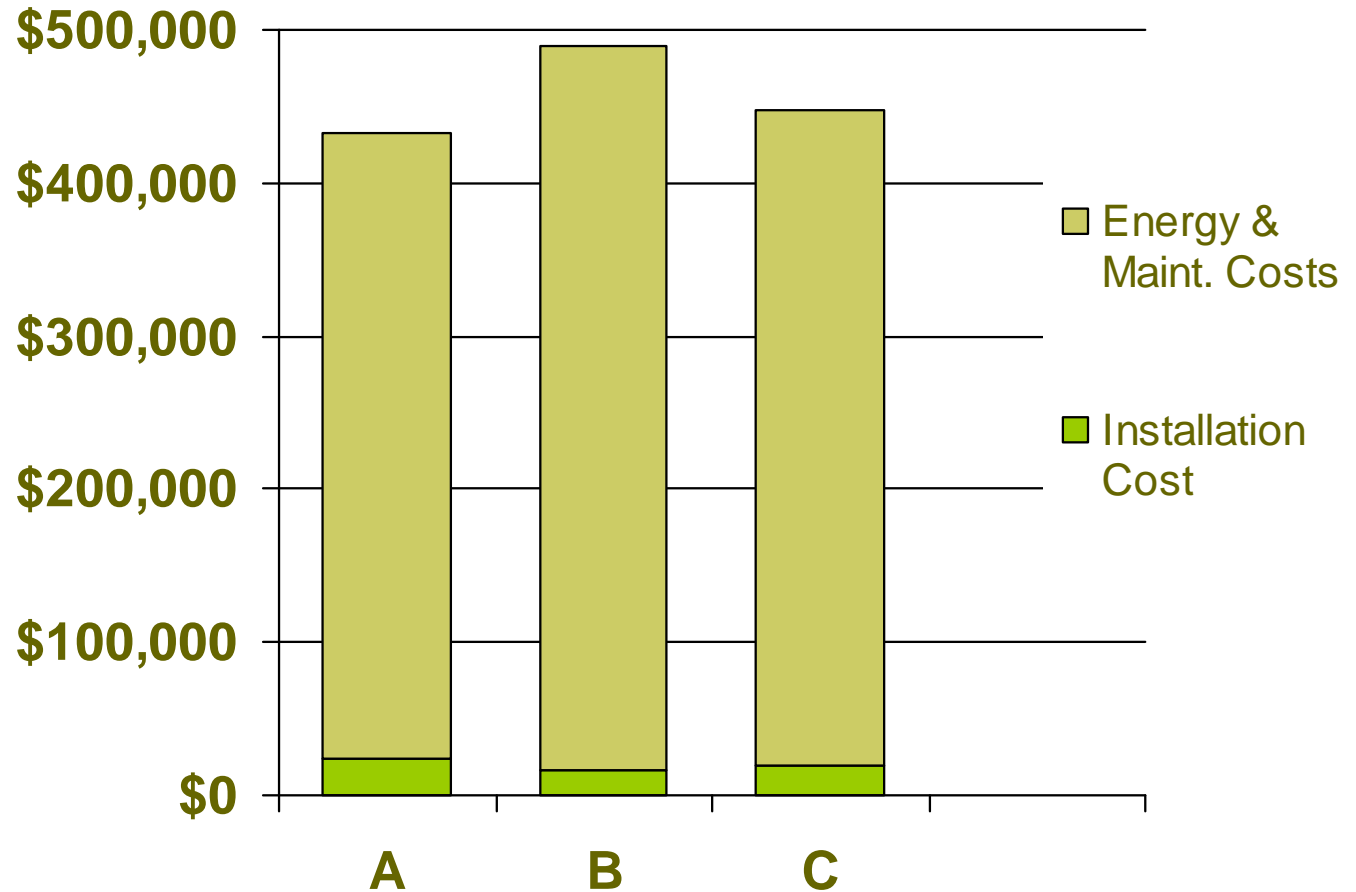
HIGH-cost investments with payback longer than 5 years -- energy savings of up to 50% per year.



Investing for the Long Term

Life Cycle Costs

(includes purchase, installation, energy & maintenance)





Identify Energy Use Indicator

Building Markers

Energy Use Index

Btu/square foot conditioned space/year

Energy Cost Index

\$/square foot conditioned space/year

Productivity Marker

Productivity Index

Energy use/qualifier

Btu/item sold

Btu/person employed, etc.



1st Steps

Know how you use energy

Xcel Energy's analysis programs

Do the easy things now

Low and no cost actions

Make a plan

Energy Star's Energy Portfolio

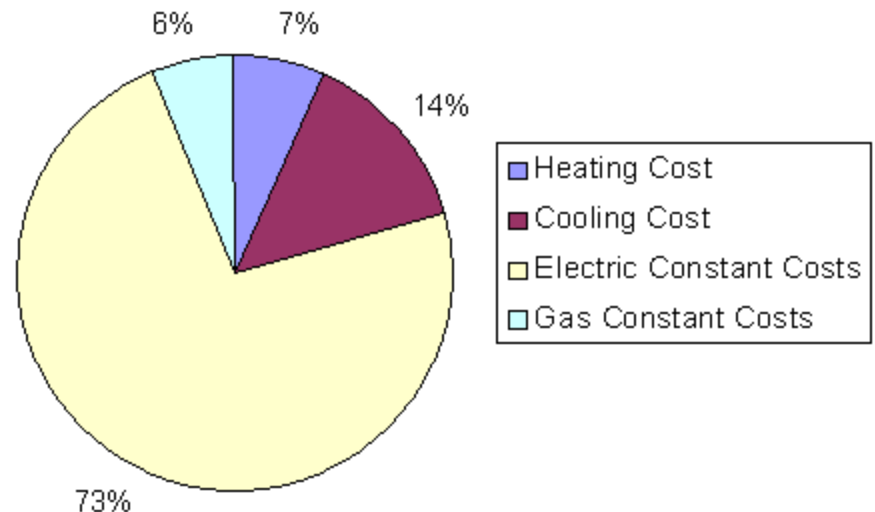
Find out the financial incentives that are available



Know How You Use Energy

- Pay Attention to Energy Bills
 - Chart for a year or more & look for anomalies
 - Look for opportunities to reduce usage at charge points (peak demand, etc.)

- Use Xcel Energy Analysis Programs
 - On-line energy audit
 - On-site energy audit



Xcel Energy On-Line Analysis

- **Building Types:**
 - Stand alone retail
 - Enclosed mall or strip mall
 - Grocery store
 - Motel & Hotels
 - Elementary, middle & high schools
 - Extended care facilities
 - High- and low-rise buildings



9 Easy Low or No-Cost Actions



Dial back or up



Set it = \$50



Turn it off



Plug in & turn off



Replace it -- LED



Low Flow



Saver's Switch



Keep it Clean



Lighting

Xcel Energy Saver's Switch

Free program

Discount of \$5 per ton of air conditioning for each cooling month June – September



Sign Up Today

or

www.xcelenergy.com/BusinessSaversSwitch

Medium Cost Actions

Broad Application



Occupancy Sensors



Lighting



Maintenance Contract

Specific Application



Low-flow Spray Valve

for Commercial Kitchens



NEMA Premium Motors



Vending Controls

Low-Flow Spray Valve



Recommended flow rate of 1.6 gallons per minute or less, & a clean ability performance of 26 seconds per plate or less

If using 1 hour per day

- \$300 - \$500 savings

If using 3 hours per day

- \$900 - \$1050 savings

Product Cost -- \$85 or less

Installation Cost -- \$0

Encourage Employee Participation

Create a “Green Team”

- Involve all FT and PT employees
- Consult with contractors and suppliers as needed

Generates good ideas,
gets other employees
excited



Financial Incentives

Types of Financial Incentives

Utility Rebates

Government Grants

Low Interest Loans

Federal Tax Deductions

Other Opportunities



Xcel Energy Rebates

Program	Rebate
Lighting Efficiency	Rebates for installing efficient lighting in existing and new buildings. One-Stop Efficiency Shop program.
Heating and Cooling Efficiency	Energy efficient boilers & burners, furnaces, steam traps, chillers, economizers, PTAC's. Prescriptive & custom.
Motor Efficiency	Prescriptive and custom rebates for motors that meet or exceed NEMA premium efficiency standards.
Efficiency Controls	Automated building systems controls for lighting, HVAC and others.
Custom Efficiency	Projects that involve energy savings but are not included in other program.
Recommissioning	Building system tune-up—improve efficiency of existing operating systems and controls.
Refrigeration Recommissioning	Commercial refrigeration system tune-up—improve efficiency of existing refrigeration systems.

State and Federal Grants



- A good portion of the federal energy stimulus dollars for energy are being funneled through the Minnesota Office of Energy Security
- Current list of Grant opportunities

<http://www.state.mn.us/portal/mn/jsp/home.do?agency=Energy>

Local Project



Food Service Energy Leadership Program

- Independently owned food service businesses within the city limits of Minneapolis and White Bear Lake
- Value of service \$5,000 per business
- Cost of service -- \$200
- Contact Agatha Vaaler at avaaler@greeninstitute.org, 612-278-7142

City or County Grants



- City and County financial incentives for energy efficiency projects are available.
- You'll learn more about a City of Minneapolis program in a few minutes.

Sign Up For “Linda’s List”



- Linda Limback at the Minnesota Office of Energy Security
- Sends bi-monthly updates: “New Funding Opportunities in the Fields of Energy and Environment”
- E-mail her at Linda.Limback@state.mn.us and ask to be added



Tax Incentives

Federal Tax Deduction

Eligibility

- ❑ The person or organization that makes the expenditures for construction is generally the recipient of the allowed tax deductions. This is usually the building owner, but for some HVAC or lighting efficiency projects, it could be the tenant. Deductions can be taken for the year the property was placed in service.

How do they work

- ❑ The building or system must be certified by qualified individual
- ❑ Inspection and testing to ensure that energy goal is met must also be completed

How to qualify

- ❑ Know square footage and when building was placed in service
- ❑ Provide certification by qualified individual stating which targets have been met

http://energytaxincentives.org/business/commercial_buildings.php

DSIRE

DSIRE
Database of State Incentives for Renewables & Efficiency

U.S. DEPARTMENT OF **ENERGY** | Energy Efficiency & Renewable Energy
North Carolina Solar Center
IREC

Home | Glossary | Links | FAQs | Contacts | About Us

DSIRE SOLAR
Database of State Incentives for Renewables & Efficiency

MINNESOTA
Incentives/Policies for Energy Efficiency

Printable Version

- [See Federal Incentives](#)
- [See All Summaries](#)
- [See Residential Incentives Only](#)

Financial Incentives

PACE Financing

- [Local Option - Energy Improvement Financing Programs](#)

State Grant Program

- [Solar Energy Legacy Grants](#)

State Loan Program

- [Home Energy Loan Program](#)
- [MHFA Rental Rehabilitation Loan Program](#)
- [NEC Minnesota Energy Loan Program](#)
- [Rental Energy Loan Fund](#)

Resources

- Summary Maps
- Summary Tables
- Library
- Search

<http://www.dsireusa.org/>



Where to Turn for Help

Useful Resources in Minnesota

Energy Smart

Center for Energy and the Environment (CEE)

Minnesota Technical Assistance Program (MnTAP)

Retired Engineers Technical Assistance Program (RETAP)

Clean Energy Resource Teams (CERTs)

The Green Institute

Minnesota Office of Energy Security (State Government)

Xcel Energy

Your city economic development department

Your county or regional economic development programs

Useful Resources (Nationwide)

Alliance to Save Energy Green Campus Program

U.S. EPA Energy Star Program

U.S. Department of Energy (Energy Efficiency and Renewable Energy)

U.S. Department of Energy (Industrial Technologies Program)

Rocky Mountain Institute (CO)

Focus on Energy (WI)

Flex Your Power (CA)

Alliance to Save Energy (Washington, D.C.)

ASHRAE

Building Owners and Managers Association (BOMA)

Contact Info



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