



**Cedar Lake
ELECTRIC, Inc.**

Lightning Fast Service For All Your Electrical Needs

Celebrating 35 Years of Service
To Minnesota Businesses
and Homeowners

Same Day Service Available



**800-658-7002
507-334-9546**

24 Hour Emergency Service

Smart Energy Saving Ideas from Cedar Lake Electric

*"How did our electricity bill get so high?" is a question we've all asked ourselves at least once:
In this report you will find some surprisingly easy ways to reduce your electric bill."*

Home Electrical Usage

For a Minnesota all electric home the standard electrical use is:

- **Heating 31%**
- **Cooling 12%**
- **Water Heating 12%**
- **Lighting 11%**
- **Computers and Electronics 9%**
- **Appliances 9%**
- **Refrigeration 8%**
- **Other 8%**

**SLASH YOUR
ELECTRICITY COSTS**



**Retrofit/Environmental
Lighting Upgrades**

• **Efficient Appliances Save Energy and Money**

Consumers get lower utility bills, and we all get a cleaner environment.

The major appliances in your home -- refrigerators, clothes washers, dishwashers -- account for a big portion of your monthly utility bill. And if your refrigerator or washing machine is more than a decade old, you're spending a lot more on energy than you need to.

Today's major appliances don't hog energy the way older models do because they must meet minimum federal energy efficiency standards. These standards have been tightened over the years, so any new appliance you buy today has to use less energy than the model you're replacing. For instance, if you buy one of today's most energy-efficient refrigerators, it will use less than half the energy of a model that's 12 years old or older.

Of course, efficient appliances don't just save you money; they're good for the environment. The less energy we all use, the lower our demand on power plants, which means less pollution. The trick is to figure out which models use the least energy. Here are some guidelines.

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Look for the Energy Star® Logo

Energy Star models are the most energy efficient in any product category, exceeding the energy efficiency minimums set by the federal government. If you remember only one rule when you shop, remember to look for the Energy Star logo. In some parts of the country, utilities and state governments even sweeten the deal by offering rebates on Energy Star-rated models.



Use the EnergyGuide Label

Some uninformed salespeople might tell you that a model you're looking at is the most efficient because it has an EnergyGuide label. Not exactly. All new appliances must carry the EnergyGuide label, either on the appliance itself or on the packaging. The label allows you to compare the typical annual energy consumption and operating cost of different models of any type of appliance you're thinking of buying.

Manufacturer/Model Number/Size

Based on standard U.S. Government tests

ENERGYGUIDE

Type of Appliance — Refrigerator-Freezer
With Automatic Defrost
With Side-Mounted Freezer
With Through-the-Door-Ice Service

XYZ Corporation
Model ABC-W
Capacity: 23 Cubic Feet

Compare the Energy Use of this Refrigerator
with Others Before You Buy.

Estimated Yearly Energy Usage — This Model Uses 644 kWh/year

Similar Appliance Comparison —

Uses Least Energy	Uses Most Energy
617	698

ENERGY STAR
A symbol of energy efficiency

kWh/year (kilowatt-hours per year) is a measure of energy (electricity) use. Your utility company uses it to compute your bill. Only models with 22.5 and 24.4 cubic feet and the above features are used in this scale.

Refrigerators using more energy cost more to operate.
This model's estimated yearly operating cost is:

\$53

Based on a 2001 U.S. Government national average cost of 8.294 per kWh for electricity. Your actual operating cost will vary depending on your local utility rates and your use of the product.

IMPORTANT: Review all the operational consumer purchase notes for Federal Trade Commission's Appliance Labeling Rule (16 C.F.R. Part 305).

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Choose the Right Size

Make sure the product you're buying suits your needs. Over-sized air conditioners, water heaters and refrigerators waste energy and money; in many cases they also don't perform as well.

Think Long Term

Many of the most energy-efficient appliances cost more initially, but they'll save you money in the long run. Expect to keep most major appliances between 10 and 20 years. A more efficient appliance soon pays for itself; lower monthly utility bills over the lifetime of the appliance will more than offset a higher purchase price. In addition, the latest resource-efficient clothes washers and dishwashers not only save electricity, they also use a lot less water and can reduce your water bill.

Below is more specific information to keep in mind if you're in the market for any of the following major appliances.

Refrigerators

If you are thinking of replacing an old appliance, the refrigerator is a good place to start. New refrigerators consume 75 percent less energy than those produced in the late 1970s. A family replacing a 1980 vintage fridge with one that meets today's standards will save more than \$100 a year in utility costs. Go one step further and buy an Energy Star-qualified model, and your new refrigerator will save you an additional 15 percent or more by employing better insulation, more efficient compressors and more precise temperature control and defrost mechanisms.

Refrigerator Buying Tips

- Refrigerators with freezers on top use 10 to 15 percent less energy than a side-by-side model of equivalent size.
- Generally, the larger the refrigerator, the greater the energy consumption. But one large refrigerator will use less energy than two smaller ones with the same total volume or a smaller fridge plus a separate freezer.

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Washing Machines

The energy efficiency of standard top-loading washers has doubled over the last two decades, mostly by decreasing the amount of water used. (Most of a washer's energy consumption goes to heating water.) Front-loading washers have also become more readily available. They generally use less water than top-loaders because they don't have to totally submerge clothes. Their tumbling action constantly lifts water and drops it back down onto clothing. Energy Star top-loaders, however, can be just as efficient as front loaders. Look for the EnergyGuide or Energy Star labels to compare efficiencies.

Replacing a pre-1998 washer with an Energy Star model can save a family \$140 a year on utility bills. Energy Star washers use 50 percent less energy than other standard models, and only 18 to 25 gallons of water for a full-sized load, compared to 40 gallons for standard full-size washers. Many Energy Star models also advertise lower fabric wear, better stain removal and briefer drying times.

Washing Machines Buying Tips

- Choose the right size washer. A smaller washer may be more efficient for small households. But if you have a large family and have to do multiple loads in a washer that's too small for your needs, you could lose any possible energy savings.
- Look for a washer with adjustable water levels. This gives you the option of using less water to wash small loads.
- Choose a washer with a faster spin speed. This allows more water to be removed after the wash, reducing the drying time and your dryer's energy use.
- Use a gas dryer rather than an electric dryer where possible.

Dishwashers

A new dishwasher is not only more efficient than older models, but it's also better at getting dishes clean. Manufacturers no longer recommend that you pre-wash your dishes. Simply scrape the remaining food off your plates and place them in the machine as is. This will save you time and save money on your water bill.

The most efficient dishwashers use less hot water, have energy-efficient motors and use sensors to determine the length of the wash cycle and the water temperature needed to do the job. The newest Energy Star dishwashers are 25 percent more efficient than the minimum federal standards. Replacing a pre-1994 dishwasher with an Energy Star model can save \$25 a year on utility costs.

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Dishwasher Buying Tips

- Choose a dishwasher with a "light wash" or "energy-saving" wash cycle. It uses less water and operates for a shorter period of time for dishes that are just slightly soiled.
- Look for dishwashers that have an energy-saving cycle that allows dishes to be air-dried with circulation fans, rather than heat-dried with energy-wasting heating coils.

Room Air Conditioners

The most efficient room air conditioners have higher-efficiency compressors, fan motors and heat-transfer surfaces than previous models. A high-efficiency unit reduces energy consumption by 20 to 50 percent. Replacing a 10-year-old model with an Energy Star model can cut energy bills by an average of \$20 a year.

Room Air Conditioner Buying Tips

Remember, the biggest unit isn't always the best choice, especially for small areas. A smaller unit running for a long period of time operates more efficiently and is more effective at decreasing humidity than a larger unit that goes on and off frequently.

- If you're comparing several similar units, choose the one with the highest Energy Efficiency Ratio. You can find the EER on the unit or its packaging. The minimum EER required by federal law is 9.7; the most efficient air conditioners of 2010 have an EER of 13 or higher.

Central Air Conditioners

If your central air conditioning system is more than 10 years old, replacing it with an Energy Star model could reduce your energy consumption for cooling by 20 percent.

Central Air Conditioner Buying Tips

- Look for the seasonal energy efficiency ratio (SEER). Old units typically have a SEER of 6 or 7. In 2006, new standards go into effect, raising the minimum SEER for central air conditioners to 13. Energy Star models already meet the SEER 13 standard, and also perform more efficiently when it's hot.
- For maximum efficiency on the hottest days, the air conditioner should have a thermal

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expansion valve (TVX), and the high temperature rating (EER) on your unit should be at least 11.6.

- For optimal performance, buy a matched system of indoor unit, condenser and even thermostat.
- Get a reliable contractor to make sure your new unit is the right size for your home, and have it professionally installed. Even the most efficient system can't make up for the energy loss due to improper sizing and poor installation.
- Have your contractor make sure all your ducts are sealed and insulated. Duct tests require a fan and a pressure gauge -- they cannot be done by sight.

Water Heaters

Water heating is typically the third largest energy expense in your home, accounting for about 14 percent of your energy bill. An old water heater can operate for years at very low efficiency before it finally fails. If your gas water heater is more than 10 years old, it probably operates at less than 50 percent efficiency.

Water Heater Buying Tips

- Calculate how much hot water your household uses at peak times. Figure that a clothes washer on hot wash/hot rinse can use about 32 gallons of hot water; a shower, 20 gallons. Washing dishes by hand can use 10 to 15 gallons, and automatic dishwashers, about 8 gallons.
- Match this figure with the "first hour rating" (FHR) on the EnergyGuide label. The FHR measures how many gallons of hot water your heater can deliver during a busy hour. Don't be misled by the size of the tank -- it doesn't necessarily correlate with FHR.
- Once you've found the right FHR range for your household, check the unit's Energy Factor (EF), which rates efficiency. A high-efficiency gas model would have an EF around 0.8.
- A natural gas unit will cost less to operate than electric.

Home Electronics

For most products, the Energy Star label is your assurance that the product will operate more efficiently than a standard model. But Energy Star TVs, audio equipment, telephones, computers and printers earn the label primarily because they draw only a small amount of power when not in use -- regardless of the amount of power they consume when operating. When buying electronics, do look for the Energy Star label, but also keep a few general caveats in mind.

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Home Electronic Buying Tips

- Ink jet printers tend to be more energy-efficient than lasers.
- LCD televisions and monitors draw less power than CRT or plasma screens.
- Small lightweight power supplies tend to be more energy efficient than large, heavy transformer-based power supplies.

More Smart Shopping Tips

- **Check for incentives.** Some states offer rewards for buying the most energy-efficient appliances. Connecticut and California, for example, have rebate programs that will refund part of the purchase price of certain new energy-efficient appliances. Maryland eliminates sales tax on some appliances with the Energy Star label. Check with your local utility and the [Energy Star Rebate Locator](#) to find out if cash rebates or other incentives are available in your area.
- **Use the Internet.** Several websites contain additional useful information. The EPA's [Energy Star website](#) has information on appliance models that carry the Energy Star label and where you can buy them. The [American Council for an Energy Efficient Economy](#) publishes a yearly list of the most energy-efficient appliances. And the [Consortium for Energy Efficiency](#) has information on programs promoting energy efficiency in the home.



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CELEBRATING 35 YEARS IN BUSINESS

Residential, Commercial, Industrial, Farm, Manufacturing, Food Processing, Health Care, Public Works, Multi-Unit Housing, Correctional Facilities, Airports, Churches and Institutional Facilities

Specializing In:

Air Conditioning and Electric Heat
Appliances / Water Heaters / Dryers / Ranges / Microwaves /Dishwasher Hookups
ARC Fault Protection
Branch Circuit Faults (Tripped Breaker/Blown Fuse)
Bucket Truck – Digger Truck
Building Automation and Energy Management Systems
Ceiling Fans/Exhaust Fans/Attic Fans
Code Correction/Code Compliance Repairs/Corrections of Illegal and Unsafe Wiring
Complete Underground Locating and Testing Services
Custom Lighting Design
Data/Communication
Devices and Light Fixtures (Receptacles, Switches, GFCI's)
Electrical Budgeting
Electrical Cost Analysis
Electrical Design Installation
Electrical Panel Upgrades
Electrical Roof and Gutter De-Icing Cable
Electrical Safety Analysis
Electrical Services and Electrical Service Upgrades (Fuses and Circuit Breakers)
Electrical Underground
Emergency Generators
Energy Management
Exterior Lighting and Signage Installation and Repair
Fire Alarm and Security Systems
Free Estimates
Generator and Power Transfer Systems
GFIC Protection
High Voltage Cabling
Hot Tubs / Jacuzzi Tubs / Whirlpool Hookups
Industrial and Commercial Services
Infra-red, Power Quality, and Ground Testing
Lighting and Power Systems for Commercial and Industrial Buildings
Lighting Control Systems
Lighting Design

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Lighting Repair
Lighting Retrofit
Lightning Protection
Low Voltage Wiring
Machine Wiring
Motor Control Centers
Motor Control Wiring
Motor Starters
New Homes/Additions/Remodel Experts
Overloaded Circuits
Phone, Data and Cable TV
Power Factor Correction
Pre-Construction Services
Project Scheduling
Recessed Can Lighting
Residential Electrical Services
Security Lighting / Landscape Accent Lighting Design
Service and Maintenance Contracts
Service Upgrades
Site Lighting Photometric Plans for City Plan Review
Smoke Detectors / Carbon Monoxide
Storm Damage Service Equipment Repair
System Automation and Process Control
Thermal Imaging Testing and Repair
Transfer Switches
Transformers
Trenching/Boring
Trouble Shooting and Repair Experts
Turn Key
Underground Airing
Upgrade Services Fuse Boxes to Circuit Breakers
UPS Systems
Variable Frequency Drives
Voice/Data/Home Theatre Wiring
Whole House Surge Protection

Service Department

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Our service department is here to serve you. There are no electrical problems that we will not tackle. Troubleshooting is our specialty. Our service electricians have years of on-the-job experience and participate in on-going continuing education. Cedar Lake Electric is proud to provide "Same Day" service. Whether you have a new home, an older home or small

business or large manufacturing plant, our service department will meet your electrical needs. Call today and try out our **Lightning Fast Service!**

Electrical Design/Build Services (CAD)

Cedar Lake Electric will design your individual plan from the ground up. You will receive detailed prints that allow you to fully capture every aspect of your project. (AutoCad Electrical Design, Computerized Lighting Design and Modeling, Short circuit analysis, Power System Coordination Studies, Power Factor Analysis and correction, Efficiency and Cost Analysis)

Lighting System Retrofit and Refurbishing

Cedar Lake Electric, Inc. has been doing energy-efficient lighting upgrades and retrofits since they were implemented by many of the utility providers. First we will perform a individual survey of your facility and make lighting upgrade recommendations while exploring all avenues of lighting including daylight harvesting and motion and occupancy sensing systems. There are a variety of products we can bring to your facility into the age of energy saving. We will assist in completing all rebate documents and with any maintenance or warranty issues. All old parts will be professionally recycled.

Competitive Rates

Everyone at Cedar Lake Electric is proud to provide top-notch electrical services at a very competitive price. Call today and find out how our competitive rates will help you stay within budget and receive quality service from our technicians.

Free Estimates

Our experienced Project Managers have over 100+ years' electrical experience combined. Free estimates are available to help you manage your budget and plan your project. Call today to schedule an estimate.

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Twenty-four hours a day, 365 days a year we have electricians available which means you can expect service when you need it, anytime, any day.

Safety

All employees are OSHA 10/Hour certified. Cedar Lake Electric takes safety very seriously and has a program to keep the whole team thinking “safety first.” Safety at ALL job sites keeps our customers, community and employees safe. Safety comes first for all Cedar Lake Electric employees.

Warranty & Quality

One year parts and labor warranty comes with guaranteed quality and reasonable rates. Cedar Lake Electric is licensed, insured and bonded. We believe in customers’ satisfaction no matter the size of job. No job is too small for Cedar Lake Electric.

Our Team

You can always expect professional service with quality workmanship from a talented, well-trained team of employees at Cedar Lake Electric, Inc.

Cedar Lake Electric prides itself as dependable, reliable, proven leaders in the electrical field. Through our 35+ YEARS IN BUSINESS we stand financially strong with a solid customer base. This tough economy has greatly affected many businesses; however, Cedar Lake Electric is proud to say we will be here in the future to serve you. This is due to our proven leadership, customer base and business skills.

Community Involvement: Cedar Lake Electric believes in supporting the community! Community support comes in many forms and covers a vast area of Minnesota through a variety of organization, programs and non-profit entities.

Become a preferred customer and receive Cedar Lake Electric news, information and discounts via email.

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