

Minimum 2" x 6" exterior wall construction is recommended.

Minimum insulation requirements:

- Ceiling and Attic R38
- Exterior Walls R19
- Sill Plates R19
- Basement R11

Lighting

- Compact fluorescent bulbs can reduce energy costs by up to 74% and have up to 10 times longer average life than incandescent bulbs.
- Use of lighting controls & motion sensors are good energy saving options.

Appliances

Purchase appliances that are high efficiency. Check the "Energy Guide" to determine & compare operating costs of different models. The slightly higher purchase price will be worth the savings.



On the Energy Star Web site at www.energystar.gov, you'll find a lot of valuable information in the Home Improvement section. The Home Energy Yardstick, for example, takes about five minutes to fill out and will help you discover whether your energy use is above average. The Remodeling Guide gives you a list of customized energy improvements (with estimated savings) for different areas of your house. The Home Sealing section offers tips on tightening your home's "envelope" to lower energy bills.



Riverland Energy Cooperative

PO Box 288, Arcadia, WI 54612
(608) 323-3381 (800) 411-9115

PO Box 248 Alma, WI 54610
(608) 685-4431 (800) 685-4415

PO Box 276 Onalaska, WI 54650
(608) 783-2238 (800) 411-9115

www.riverlandenergy.com

Energy Efficient Building Tips



- Radiant Floor Heating
- Central Heating
- Electric Thermal Storage
- Water Heating
- Dual Fuel Program
- Lighting & Appliances

These systems, combined with REC's dual fuel rate, provide savings in heating and cooling costs for your home compared to other systems.

Radiant Floor Heating

100% efficient electric radiant floor heat is the most effective & efficient way of heating basements & garages.

Therma-Slab Storage System consists of electric heating panels installed 4-12 inches below the slab. The hydronic radiant system is installed in the concrete slab & Can be heated with an electric boiler or the geothermal heating system.

Central Heating

- **Geothermal heat pumps** provide efficiencies of 300-400% compared to energy efficient furnaces with efficiency ratings up to 98% efficient.
- **Comfort Plus** electric heating storage system combined with an air-to-air heat pump offer efficiencies of 150% to 200%.
- **Programmable thermostats** automatically increase & decrease temperature to save energy costs when you're not at home.

Electric Thermal Storage Units

Electric Thermal Storage (ETS) units convert electricity to heat in specially designed ceramic bricks and are 100% efficient.

Dual Fuel Program

The Dual Fuel Program offered by REC can reduce heating and cooling costs to your home by up to:

- 75% for geothermal systems
- 50% for Comfort Plus systems and
- 33% on electric heating systems compared to heating and cooling costs of other non-electric heating systems.



Water Heating

- Purchase a high efficiency electric water heater with a minimum energy factor of .86 or R-16 insulation rating. Check the "Energy Guide" label for operating costs of each water heater for comparisons.
- Reduce the temperature setting of the hot water heater to 120-130 degrees Fahrenheit. Residential-type dishwashers should have a built-in booster heater that allows the lower temperature setting.
- Use low-flow shower heads & faucet aerators to reduce the flow rate by 60% or more.

