

Homeowner News

FALL
2011

News & Information For The Customers Of Climate Control, Inc.

Inside...

**\$40 OFF
Furnace Tune
Up Special**

\$20 Giveaway

**The Perfect
Roasted
Turkey**

**Four Tips to
Food Safety**

The CORNER

Are You Ready For the Utility to Control Your Thermostat?

The day is coming when utility engineers will reach into homes remotely to shut off air conditioners for brief intervals during periods of peak demand. Fortunately, it will not be as frightening as it sounds.

Base Load and Peaking Plants

Most electricity is generated by base load plants. In the past, base load power plants were largely coal fired, hydroelectric, or nuclear. Utilities rely on them because the electricity produced by base load plants is cheap. The trade-off is base load plants ramp up their output slowly and/or in steps. It's impossible to simply flip a switch and get more power from a base load plant. As demand ebbs and flows, a variable type of generation is needed to balance supply against demand. These are peaking plants.

Peaking plants supplement base load power plants. Typically peak load plants are oil or natural gas turbines. The turbines can be brought online quickly and also, throttled back quickly, giving utility engineers the ability to respond to surges in demand.

The Changing Energy Mix

To reduce particulate and greenhouse gas emissions, regulators are trying to reduce our use of fossil fuel power generation. In particular, regulators have targeted coal. This is somewhat problematic for utilities because coal is abundant and inexpensive.



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At Climate Control, Inc we strive to provide the best products and services to our customers at affordable prices. Please contact us for all of your heating and cooling needs. We are happy to help with installation, maintenance and repairs.



Did you know?

Fall starts on September 23. On the **first day of fall**—the autumnal equinox—day and night are each about 12 hours long (with the actual time of equal day and night, in the Northern Hemisphere, occurring a few days after the autumnal equinox). The Sun crosses the celestial equator going southward; it rises exactly due east and sets exactly due west.

The Perfect Roast Turkey

Ingredients

1 (18 pound) whole turkey
 1/2 cup unsalted butter, softened
 salt and freshly ground black pepper to taste
 1 1/2 quarts turkey stock
 8 cups prepared stuffing

***Tips:** A meat thermometer should be used to ensure a sufficient internal temperature has been reached to destroy bacteria and prevent foodborne illness - as well as to prevent overcooking.

Prep Time: 30 Min

Cook time: 4 Hrs



605-225-9822

Instructions

1. Preheat oven to 325 degrees F (165 degrees C). Place rack in the lowest position of the oven.
2. Remove the turkey neck and giblets, rinse the turkey, and pat dry with paper towels. Place the turkey, breast side up, on a rack in the roasting pan. Loosely fill the body cavity with stuffing. Rub the skin with the softened butter, and season with salt and pepper. Position an aluminum foil tent over the turkey.
3. Place turkey in the oven, and pour 2 cups turkey stock into the bottom of the roasting pan. Baste all over every 30 minutes with the juices on the bottom of the pan. Whenever the drippings evaporate, add stock to moisten them, about 1 to 2 cups at a time. Remove aluminum foil after 2 1/2 hours. Roast until a meat thermometer inserted in the meaty part of the thigh reads 180 degrees F (80 degrees C), about 4 hours.
4. Transfer the turkey to a large serving platter, and let it stand for at least 20 to 30 minutes before carving.



Be Food Safe This Thanksgiving

USDA is providing consumers with four key recommendations you can use to help reduce the risk of foodborne illness during the Thanksgiving holiday. The four easy to remember tips are **Clean, Separate, Cook and Chill** into practice in order to be food safe:

- **Clean** - Wash hands, surfaces and utensils often to avoid spreading bacteria when preparing food. Hand washing is one of the best ways to prevent the spread of foodborne illness.
- **Separate** - Use different cutting boards for raw meat, poultry, seafood, and veggies. When you prepare Thanksgiving dinner, keep the raw turkey away from vegetables and side dishes that won't be cooked.
- **Cook** - You can't tell it's done by how it looks! Use a food thermometer. Every part of the turkey should reach a minimum internal temperature of 165° F.
- **Chill** - Keep the fridge at 40°F degrees or below to keep bacteria from growing. Pumpkin pie should always be refrigerated and leftovers should be refrigerated within two hours.

Factor in thawing the turkey, cooking the turkey, preparing side dishes and desserts—and the other duties that come with hosting a gathering with family and friends — it is easy to forget that food safety is *the* most important factor in determining whether the meal is an enjoyable one.



Climate Control, Inc.



Homeowner News is a quarterly publication of Climate Control, Inc. It is provided to our customers free of charge. We welcome your suggestions and ideas. Contact us at:

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Are You Ready For the Utility to Control Your Thermostat?

The challenge is finding a replacement for coal plants. Hydroelectricity is a clean, reliable, renewable energy source, but environmentalists are resisting the construction of additional dams due to their impact of fish and other wildlife habitats. Nuclear energy is also a source of clean energy, but nuclear plant construction is unlikely in the wake of the Fukushima nuclear power plant accident in Japan.

There is growth in gas, which is the cleanest fossil fuel. Due to new extraction technology, North American natural gas supplies are surprisingly abundant. Yet, gas is still more expensive than coal and unlikely to bridge the gap of diminished coal capacity.

Environmentalists and many in the government hope to replace fossil fuel generation with renewables, particularly wind and solar. Large scale projects are in place and underway for both technologies, though environmental concerns are impeding both technologies. In scale, both carry large physical footprints, require new transmission lines, and in the case of wind, threaten endangered birds. Nevertheless, the use of wind and solar is increasing and changing our energy mix.

Utility Planning Challenges

Because wind requires the wind to blow, but not too hard, and solar requires the sun to shine, both technologies are variable. While meteorological forecasting can help utility planners anticipate periods where wind and solar will be unavailable, the forecasting is not perfect. When wind and solar are added to the base, engineers are confronted with the need to balance demand with supply, but with base load supply that might unexpectedly drop out of the mix.

Controlling Demand

Since electricity demand varies throughout the day, utilities have long employed “demand side management” (DSM) strategies to reduce demand to avoid adding supply capacity. Some DSM strategies take the form of incentives for purchasing energy efficient heating and air conditioning, installing local solar, weatherization, and so on. Others are behavioral, using “time of use” (TOU) rates to encourage businesses to shift electricity usage from periods of peak demand to off-peak hours. TOU rates offer incentives. Demand charges, based on the total demand of a commercial or industrial business represent punitive measures. TOU and incentives are the carrots. Demand charges are the sticks.

Now, utilities are exploring new residential DSM strategies, including TOU rates where homeowners can save money by using their dishwasher and laundry equipment at night instead of the day. Other incentives will be introduced for smart thermostats that the utility can control remotely. By shutting off the air conditioning across thousands of homes for brief periods of times, utility engineers can reduce peak demand. Engineers believe homeowners will not even notice. To date, field tests confirm that homeowners are unaware when utilities turn off the air conditioners for participating homeowners.

Will the utilities control your thermostat in the future? Some industry experts believe it’s only a matter of time before this becomes mandatory. Perhaps. In the interim, utilities will entice homeowners to relinquish a little control with better rates and other savings.



\$40 OFF

Fall Furnace Tune-up Special

Be prepared for those cold winter months with a Furnace Tune-Up for your home or business.

Call us today!



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Not valid with any other offer. No other discounts apply. Expires 9/30/11

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Complete and return for a chance to win a [\\$20 gift card](#). If you correctly answer the three questions below, we'll enter you in a drawing for a \$20 gift card. Second prize will be a \$10 gift card. All entries must be received by 9/30/2011. Mail to: Climate Control, Inc., 12999 386th Ave, Suite 2, Aberdeen, SD, 57401.

True/False It is illegal for electric companies to control your thermostat.

True/False Wind and solar power are not reliable.

True/False Many more power plants will soon be built.

Please contact me about:

- Fund raising opportunities for your favorite charity or school
- Heat/Cool system maintenance
- Lowering my electric bill
- Improving indoor air quality
- Upgrading heating/cooling equipment

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Best Time: _____

Limit 1 entry per person. No purchase necessary. A purchase will not improve your chances of winning. Winner will be selected at random within 30 days of entry deadline. All decisions are final. All entrants agree to contest rules, which require winner to sign a prize and publicity release unless precluded by law. Must be 18 to enter. Failure to comply results in disqualification. Entries void if incomplete or illegible. No responsibility is assumed for lost, late, or illegible entries. Company employees and family members are ineligible. Odds depend on the number of entries received. Acceptance of the prize implies consent to use name and image in promotional material with the prize as compensation. All taxes are the responsibility of the winner.



The Corner

Q. What did the turkey say to the man who tried to shoot it?

A. Liberty, equality and bad aim for all!

Q. Why did the turkey cross the road?

A. It was the chicken's day off.

Q. What key has legs and can't open doors?

A. Turkey

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