

Benefits

- Customers have the ability to significantly reduce power costs every month.
- Load Management averages 8.6 hours per month.
- Loads are controlled remotely and directly by the municipality.

Tips to Prepare Your Home For Summer Heat

• **Caulking, Weather Stripping and Air Seal.**

Hidden air leaks can be huge energy drains in the home. Some common sites for air leakage include duct systems, fireplace dampers, attic access hatches, baseboards, windows and doors. Check for air leakage in these common sites and seal if necessary. Weather strip along the door perimeter and install a quality door sweep on the bottom of the door. Seal all leaks in the duct system with a quality “mastic” sealant. Replace dirty air filters regularly during all seasons.



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- **Insulation.** Insulation standards recommend R-30 insulation in ceilings. If your home has little or no ceiling insulation, consider adding some.

- **Windows.** One-third of a home’s total heat is lost through windows and doors. To minimize the leakage, seal windows or, if windows are too old and leaky, consider purchasing new energy-efficient windows. An easy and inexpensive way to seal a window is to use plastic window film—kits are available at home improvement stores. All window edges and cracks should be sealed with caulk.

- **Turn Down the Water Heater.** Set your water heater to 120 degrees. Most water heaters are set by the manufacturer at 140 degrees. Most households operate comfortably at 120 degrees, saving money on heating costs and protecting your family by reducing the risk of hot water scalding.
- **Lighting.** Compact Fluorescent Lamps (CFL) use a fraction of the energy of traditional incandescent light bulbs and last up to ten times as long. CFLs are available in home improvement stores in the lighting section. Replacing a traditional light bulb with a CFL can save as much as \$36 in energy costs over the life of the lamp.

Your satisfaction is guaranteed. There is never a installation or maintenance charge with the Load Management Program. If the Load Management switch becomes disconnected, please contact the Town of Clayton Customer Service to have it reconnected in order to continue receiving credits.

For additional information, please contact Town of Clayton Customer Service at 919-553-5002.



Town of Clayton

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NC Public Power

www.ncpublicpower.com



CLAYTON RESIDENTIAL LOAD MANAGEMENT

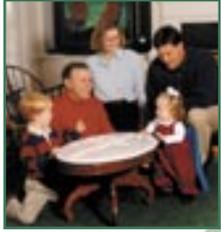
SAVE ENERGY. **SAVE MONEY.**



Conserve Energy and Save Money

This brochure provides an overview of residential electric load management, designed to encourage load shedding of peak demand to save you money.

Residential Load Management



Residential Load Management is a means of controlling the amount of electricity being consumed in the home, especially during periods of high electric (peak) demand. Load management is used to reduce electric demands and

lowers the utility's and the customer's costs.

Customers who wish to participate in the Town of Clayton Load Management Program will allow the municipality's electric department to install a load management switch on their electric water heater, electric heat strips on the heat pump, and/or air conditioner compressor to receive credits on their monthly power bill.

During periods of heavy demand for power, the load management switch cycles the controlled units off. The more switches the Town has in place, the greater the impact of the load management program.

- **Electric Water Heater Controls.** Electric water heaters are cycled off during brief load management periods. Controlling water heaters does not usually affect the amount of hot water available due to the inherent thermal storage capacity of water heaters. Monthly credits are given January through December.
- **Electric Heat Strip Control.** Heat strips are controlled during the winter load management periods. Compressors continue to provide heat. Control of heat strips is generally for one hour during the usual three hours of load management control during winter months (on days of load management and Monday through Friday only).

- **Air Conditioner Compressors Control.** Under regular air conditioner control, the compressor is cycled off for brief periods. The circulating fan continues to run and comfort levels are not usually affected. Cycling off only occurs the few days each summer when both the demand for electricity and our load are the highest. Depending on your lifestyle, sign up for 25% A/C Control or 50% A/C Control for maximum savings. 25% Control cycles for 15 minutes every hour, and 50% Control requires 30 minutes—every hour during the usual three hours of load control during summer months (on days of load management and Monday through Friday only). A switch on the thermostat cycles your air conditioner compressor when it receives a signal.

Determining When the “Peak” Will Occur

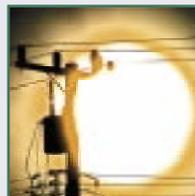
Winter peaks occur in the early morning.



Calls, pages, and e-mail alerts are made **one day in advance** of the recommended window of load management.

Winter peaks typically occur between 7:00 a.m. and 9:00 a.m.

Summer peaks occur in the late afternoon.



Same day advance calls, pages and e-mail alerts are made, generally with two or more hours notice.

Summer peaks typically occur between 3:00 p.m. and 6:00 p.m.

Abnormal weather may cause increased peak load conditions and require an amended time window.

For example, during a hot summer afternoon, “chasing the peak” may be required. Close monitoring of the overall electric grid loads continue for an extended window on either side

of the normal period when the peak generally occurs. This peak watch readiness ensures the coincident peak is not missed.

The objectives of load management are to accurately forecast the period of time load management controls are necessary to beat the peak, and to keep the total hours of load management to a minimum.

How Load Management Works



Meteorlogix Weather, Doppler radar images, cloud cover and a variety of weather information through our Power Agency is used to help forecast peak conditions. Years of month-by-month peak occurring

history, temperature and load data, as well as a good bit of experience, are utilized.

An automated notification call system alerts the municipality's electric department in advance with load management recommendations. Load management recommendations are based on short-term forecasts, with six to twenty four hours of advance notice of projected weather conditions, affecting peak demands.

Save Every Month



Load Management does not require load control on a daily basis. Load Management averages 8.6 hours of applied controls per peak month.