

# Take Charge Of Your Electricity Use And Save Money With The Load Management Option

**The Illuminating  
Company**  
*The Energy Makers.*  
A Centurion Energy Company



# The Load Management Option Can Be Of Great Benefit To You.

Today, everyone is looking for ways to save energy and money. In that regard, The Illuminating Company has introduced an innovative concept which will help you do just that — save energy and money. It's called the Load Management Option.

At first, you may not be familiar with the meaning of those words in this context. But, let us explain them. Once you fully understand the concept, "Load Management Option", you'll find it to be of considerable importance to you.

## First, The Word "LOAD."

In electric energy terms, load means the total flow of all electricity you use in your home at any given point in time. The rate at which electricity is coming into your home right now, is the load. The load varies from time to time.

## Now, The Word "Management."

"Management" means taking charge of or controlling the flow of electricity into your home. It means taking control of the "Load".

## "Option"

is self-explanatory. It means that this is something you can do if your electricity consumption meets certain qualifications.

## "Load Management Option"

There you have it. "Load Management Option" means that you can, if you want to, control or schedule when and how much electricity you use at any given point in time. You can do this by hand, or with automatic, electronic load control equipment. Either way, practicing "Load Management" can save you money.

## How Can It Save You Money?

Regulating the amount of electricity coming into your home at any one time can save you money because it can save The Illuminating Company money. If large numbers of customers practice "Load Management", this will reduce the total amount of electricity CEI is required to generate at any given point in time. Right now, in the CEI service area, *most* electricity is used during the daytime and early evening hours as people do their laundry, cooking and other household tasks. Electricity use is lowest during the night and on weekends and holidays.

This means that CEI has to use most of its generating equipment during the daytime. On the other hand, some of that same equipment



sits idle at night, on weekends and holidays. Idle generating equipment is expensive.

CEI could save money, and so could you, if CEI could use its generating equipment more efficiently . . . in other words, use less of it in the daytime and more of it at night.

Just as your car operates most efficiently while being driven at a steady rate of speed, CEI's generators work most efficiently when electricity is used evenly throughout the day and night.

In both cases, the higher efficiency results in less energy consumed and, of course, lower costs . . . for CEI and for you.

That's why we are encouraging our customers, especially those who use large amounts of electricity, to spread that use more evenly around the clock. If you do, we can charge you for your electricity at a lower rate.

## *What Can You Do To Save Money With The Load Management Option?*

You can take full charge of your electricity use. Manage it by scheduling the way you use your major electric appliances.

For example:

- Put a timer on your electric water heater so it will heat your water during the mid-evening hours, or early morning, before you need it.
- Wait for the water heater to recover before drying clothes.
- Avoid using the self-cleaning feature on your oven while you are doing the laundry.

- Wait until your controllable electric loads, such as the range and oven, are over before you use another major appliance.

These are just a few examples. You can think of many more. For example, use major appliances one at a time and never use several of them all at once.

## *Select From Two Load Management Rate Options.*

One of your options is called the "Non-Time-Of-Day" option. This means that you can save money on your electric bills if you manage your use of electric appliances on a daily basis. In other words, you save money by running appliances such as air conditioners and clothes dryers, for example, at different times. Using this option, you are practicing Load Management around the clock, every day.

Your second Load Management Option is called a "Time-Of-Day" option. This means that you manage your use of electric appliances during on-peak time, which is from 8 a.m. to 8 p.m. daily, Monday through Friday.

Your electric bills will be lower if you avoid the same time use of major appliances during those hours. However, under the "Time-Of-Day" option, you do not have to manage your electricity usage at all between 8 p.m. and 8 a.m. Monday through Friday or on weekends or eight national holidays, including New Year's Day, Presidents' Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day. During those times, the total demand for electricity is low, so it's not really necessary to reduce or control your use of it.



## Which Option Is Best For You?

If you use 700 kilowatthours a month, on average, or, if you already are in the habit of using only one major electric appliance at a time, or doing only one task at a time, then the "Non-Time-Of-Day" option probably is best for you.

On the other hand, if you live in an all-electric home, or, if you tend to use a lot of electricity during the month, or if you use major appliances during the evenings or weekends (two working adults, for example, fit this pattern), then you may benefit from the "Time-Of-Day" option.

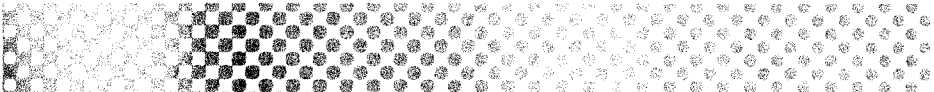
Selecting either option requires that your present electric meter be replaced with a load management meter. It not only registers the total kilowatthours of electricity you use during the month but also the rate of flow of electricity during each *30-minute* period. That is your kilowatt demand. But, remember, the meter only *registers* your use. It *does not control* your use of electricity.

If you believe you qualify for the Load Management Option and would like to apply for a special Load Management Rate, just indicate your choice of meters on the postage-paid reply card in this brochure, then detach the card and mail it to The Illuminating Company.



## Say You Select The Non-Time-Of-Day Option. Then, What Happens?

The Illuminating Company will install a special meter (at a cost of \$3.20 per month) which will record your highest electricity use for any single half-hour during the billing month. That is called your peak



demand. It will be used to calculate the number of kilowatthours you have to use in order to qualify for the lower Load Management Rate.



## For Example

Here's how the Load Management Rate calculation works . . .

Let's say that, last month, you used 1460 kilowatthours of electricity. And, assume that the largest amount you used at any one time was 7 kilowatts. That is your kilowatt demand: 7.

The demand number (7) is multiplied by 125 hours (this is a mathematical formula used to determine the number of kilowatthours to be billed at your regular electric rate, and the number to be billed at the Load Management Rate).

The 7 kilowatt demand, times 125, equals 875 kilowatthours. This 875 kilowatthours will be billed at your regular electric rate.

Then, the 875 is subtracted from 1460, the total amount of electricity you used, leaving a balance of 585 kilowatthours. These kilowatthours will be billed at the Load Management Rate.



## Will You Always Save Money With The Load Management Option?

If, for some reason, your electricity use in one month was such that no portion of it qualified for the Load Management Rate, your electric bill would be calculated at your regular rate. Only the meter charge would be added. The only risk to you, in the event that, during any given month, your energy consumption pattern does not result in savings, is the meter charge.

# Be Sure To Keep Your Kilowatt Demand As Low As Possible

That's the secret to success with the Load Management Rate Option. Keeping the kilowatt demand low *reduces* the number of kilowatthours billed at your regular rate, and *increases* the number of kilowatthours billed at the lower rate.

## How Soon Will The New Rate Show Up On Your Electric Bill?

Once your new Load Management meter has been installed, fifteen days or more prior to your meter reading date, your bill will reflect the new Load Management Rate.

## Here Are Some Suggestions To Help You Keep Your Kilowatt Demand Down:

- Manage your electric water heater with an automatic timer to cycle it on and off.

- When your electric heating system is in operation, turn the thermostat down when another major appliance is in use.
- If you have a heat pump, remember you should raise the temperature not more than two degrees at a time.
- When your comfort system is in the cooling mode, turn your air conditioning thermostat *up* or *off* while using another major appliance.
- Consider installing a load controller. This device will automatically control your major appliances in ways which will reduce your kilowatt demand.
- You may want to use an interlock between your dryer and water heater. This will automatically prevent the possibility of both appliances operating at the same time.
- Homes heated with electric baseboard heating systems offer you the opportunity to turn the individual room thermostats down in any rooms that are not in use.

## Here Are Some Appliances Which You Can Control And Save Money Using The Load Management Option:

APPLIANCE	TYPICAL WATTAGE	KILOWATT DEMAND
Air Conditioner	4,500	4.5 kWd
Electric Dryer	4,500	4.5 kWd
Water Heater	5,000	5.0 kWd
Built-In Oven	4,000	4.0 kWd

APPLIANCE	TYPICAL WATTAGE	KILOWATT DEMAND
Range-Full Time Self-Cleaning	12,200	12.2 kWd
Small Surface Unit	1,300	1.3 kWd
Large Surface Unit	2,400	2.4 kWd
Electric Furnace	20,000	20.0 kWd
Heat Pump (3 ton)	4,500	4.5 kWd

## Remember...

Load Management meters *measure* kilowatthour consumption and *kilowatt demand*. They *do not* control the load.

## You May Want To Try A Load Controller

This device automatically regulates the electricity load in your home while, at the same time, maintaining uniform comfort levels without disrupting cooking, lighting or refrigeration.

Automatic load controllers are *not* used to control electric ranges, lights or small appliances. They only control the load coming through the larger appliances and devices such as air conditioning, electric heating, water heaters and clothes dryers, for example. The load controller can, however, help lower your electric bills by as much as 25 percent.

## How to Read Your Time-of-Day Meter

Your meter has 11 modes that continuously roll through the display. Usually the modes show clearly during the daytime hours between 6:30 a.m. and 6:30 p.m.

Remember your on-peak or billed demand is measured between 8:00 a.m. and 8:00 p.m. So try to limit appliance use until after 8:00 p.m. and before 8:00 a.m. and on weekends and holidays.

a. Segment Check

8 8 8

8 8 8 8 8

b. Day of week; 1-7  
(Sunday is 1)

0 0

c. Day of Year  
(Julian Calendar)

0 1

d. Time (Military Time)

0 2

e. Total kWh (Energy Use)

0 4

f. Peak kWh

P 0 5

g. Peak kWd

P 0 6

h. Peak cumulative kWd

P 0 7

i. Off-peak kWh

L 1 3

j. Off-peak kWd

L 1 4

k. Off-peak cumulative kWd

L 1 5

Your meter should be read and reset each month. The meter reader will change your colored seal each month indicating a meter reading.

# How to Read Your Non-Time-of-Day Meter

Your meter has four display modes. In order to activate each display mode, if you have a PDR Duncan Meter installed in your home, run your finger across the electronic eye for each mode that you wish to see. If a General Electric Meter is installed, the four modes continuously roll through the sequence.

a. Segment Check

8	8	8	8	8	8	8	8
---	---	---	---	---	---	---	---

The segment check indicates correct number display

b. kWh

--	--	--	--	--

Registers cumulative energy use

c. Max kWd

--	--	--	--	--

Registers the peak 1/2 hour of demand in the billing month

d. Cumulative kWd

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Maintains the sum of each month's Max kWd

Your meter should be read and reset each month. The meter reader will change your colored seal each month indicating a meter reading.

## Call Us For More Information

There's an Illuminating Company "Load Management Line" available for you to call. It's as near as your telephone. In Cleveland, call 1-800-589-2222. In Painesville, the number is 953-7700. In Ashtabula, call 1-800-331-5487.

The Energy Makers are anxious to help you use electricity more efficiently, more effectively and more beneficially.  
Call us.

**The Illuminating  
Company**  
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