

New Electronic Pain Killer...

relieves backache, headache, even pain of tennis elbow, arthritis & bursitis!

Tested by doctors, INFRALUX™ is handheld and portable. Its infrared heat relieves pain without medication! FDA registered.

Try it FREE for 30 days!

Say goodbye to pain. No matter the type you suffer from—headaches, tennis elbow, arthritis, bursitis, sinusitis, backache, neuralgia, muscular pains, sprains, or any musculoskeletal condition—here is a quick easy answer. Put INFRALUX next to the pain and within minutes, you can get on with work or play.

SOOTHING PAIN RELIEF. BUT WHY INFRARED HEAT?

There is nothing new about infrared heat. Doctors and therapists have used and recommended it for years in pain treatment. But until now, there hasn't been a compact, easy-to-use unit.



Why infrared? With ordinary methods such as heating pads and hot water bottles, much of the heat is dissipated on the skin's surface. There's no lasting effect.

But with infrared heat, the treatment goes down d-e-e-p where you need it. In fact, INFRALUX's shortwave, visible infrared heat will penetrate up to 10mm of skin tissue to reach irritated nerve endings. Your INFRALUX seeks, finds and soothes!

ELIMINATE UNNECESSARY MEDICATION.

In fact, William J. Shriber, MD notes in his respected "Manual of Electro Therapy" **THAT MILD INFRARED RADIATION MIGHT BE THE ONLY WAY TO RELIEVE PAIN WITHOUT THE USE OF MEDICATION.**

Why take medication when it isn't needed? INFRALUX is the most natural route to pain relief.

HOW THE INFRALUX WORKS.

All you do is hold the INFRALUX unit next to where you hurt. It even works thru clothing! Within moments, you'll sense comforting, soothing heat.

INFRALUX heat goes to where the pain is—to blood vessels, nerve endings, and other subcutaneous tissue.

USE AS OFTEN AS NEEDED.

Unlike drugs and medication, INFRALUX can be used as often as needed. It's made to help you day or night, at home or at work. And be

RECOMMENDED BY DOCTORS

FROM ACTUAL DOCTORS' REPORTS ON INFRALUX:

"I have used the unit in my practice for six months and I find it relieves pain and muscle spasms, stiff shoulders and elbows from bursitis and tendonitis. Patients suffering from arthritis use the Infralux in the morning and get excellent results." J.L.G., MD

"On patients with a variety of musculoskeletal painful conditions, Infralux was demonstrated to be effective in relieving pain." V.S., MD



sure to pack it for out-of-town trips. You can enjoy soothing relief wherever, and whenever.

U.L. LISTED

INFRALUX is easy to carry too in its handsome vinyl bag. No bigger than a small flashlight (six inches long). It plugs in any 110V outlet and it is U.L. listed for your safety.

TRY IT FOR YOURSELF

The minute your INFRALUX arrives in the mail, give it a good try. Put it to the test on that nagging backache, that stiff neck, those arthritic pains that hit so suddenly. If, after a month, you're not astounded at how much better you feel, return it for a full refund.

HERE'S HOW TO ORDER

INFRALUX is only **\$39.95** (plus \$2.85 shipping and handling). To order, simply send your check to Baystar at the address below. Credit card holders can speed their delivery by using our toll-free number. (Maryland residents add 5% tax.)

CALL TOLL FREE

Monday thru Friday 9am-5pm Eastern Time

800-638-6170

All other times call **800-257-7850**

Maryland residents call 363-4304

Be ready the next time pain interrupts your schedule. Order an INFRALUX today!

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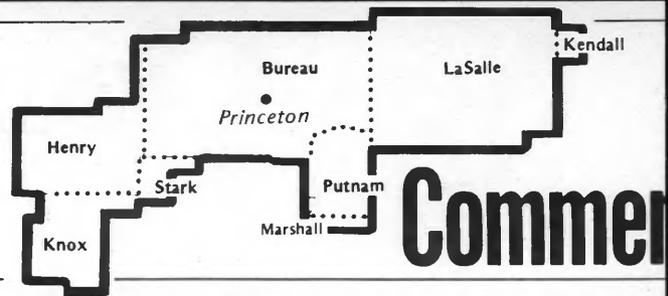
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Across the manager's desk

by Tom McDonald
General Manager



I.V.E.C.



Mr. Albert Hagenbuch, president of your board of directors, has announced the selection of Timothy Christensen as your new general manager.

Mr. Christensen comes to Illinois Valley Electric Cooperative with excellent qualifications for this position.

For the past six years he has served as general manager of the Cedar Valley Electric Cooperative, headquartered at

St. Ansgar, Iowa. Prior to that he served as assistant manager at Price Electric Cooperative, Phillips, Wisconsin.

Mr. Christensen will assume his duties as general manager on February 1, 1983.

I am personally delighted that the board was able to secure a person of Mr. Christensen's qualifications to serve the members of Illinois Valley

Electric Cooperative.

As I enter retirement after serving as your manager for the last three and one half years, it is a very satisfying thought that you will have not only a most dedicated and effective board, but also an experienced and capable management and staff.

All of us at Illinois Valley Electric Cooperative wish all the members a prosperous and happy new year.

Several conditions cause low voltage

Low voltage or not enough power may be the result of any one of several abnormal conditions. Check first with your neighbors to see how their lights and appliances are doing.

If they are having the same trouble, you can be fairly certain that something is wrong somewhere on the main power line or in the substation. A lineman must then be sent out to find the trouble and make the necessary repairs to restore proper voltage.

If you have installed some major appliance or piece of electrical equipment, the transformer or service wires may be overloaded. Everything would still operate normally except when you try to use this new equipment. Then evidence of low voltage would indicate an overload. The transformer, service wires or both should be changed.

Sometimes low voltage and loss of power is due to loose or badly corroded connections somewhere on the service wires between the transformer and the fuse box inside your house. Our linemen have found that more than 85 percent of these troubles occur on the member's side of the meter — in the meter base, in the breaker box below the meter (usually a bad breaker here), at the top of the meter pole, at the entrance cable connection at the house, or a loose con-

nection inside the fuse box. The most common causes seem to be too many wires in one connector, the wrong connector for connecting aluminum conductor to copper, and not having connections tight enough to begin with.

If there is a loose or open connection in one of the hot lines between the transformer and your fuse box, it will act exactly the same as if you had a meter pole breaker tripped off or a main fuse burned out in your fuse box. Here are some of the symptoms:

1. Some of your lights and 120-volt appliances will work normally and others will not work at all.

2. None of your 240-volt appliances will operate.

3. If you have any 240-volt appliance turned on, voltage can then feed back through this appliance and some of your lights may be quite dim. Turning off or unplugging the 240-volt appliance will cause all the dim lights to go out completely.

If there is a loose or open connec-

tion anywhere in the neutral line, the following symptoms become quite evident:

1. Some lights will get quite dim when a 120-volt motor or other appliance is turned on.

2. Other lights will get extremely bright. This is a dangerous voltage as far as light bulbs, televisions, microwave oven and radio tubes are concerned and the trouble should be found and corrected as soon as possible before excessive damage occurs. For the protection of your 120-volt lights and appliance you should turn them all off until the trouble has been found and corrected.

3. All 240-volt motors and appliances will operate normally without any danger of being damaged.

Although we are always willing to help anyone with their voltage problems, Illinois Valley Electric Cooperative cannot assume any responsibility for damages or losses caused by these abnormal voltages. There is no possible way we can prevent damage due to wind, lightning, falling limbs or trees, vehicles hitting a pole or guy wire, bad meter pole breakers, burned connections due to overload, wrong materials being used, loose connections done by others and all the other conditions that can sometimes cause higher or lower voltages.

IVEC Members

Is this your account number?

0001549500

If it is, please notify Illinois Valley Electric Cooperative, (815) 875-4488, and we will present you with a fine gift.

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Illinois Valley Electric Cooperative

Office Hours 7:45 A.M. — 4:30 P.M.

Route 6 & 34 West

Monday through Friday

Princeton, Illinois 61356

Telephone 815/875-4488

*Serving the rural areas of Bureau, Henry, Kendall,
Marshall, Knox, LaSalle, Putnam and Stark counties*

Organized: March 28, 1939, at Princeton, Illinois

Report electric line hazards

Your Cooperative has over 1,630 miles of line and thousands of poles, crossarms, insulators, transformers and other equipment essential to supplying electric service to more than 5,800 member-owners. Through a systematic inspection and maintenance program, we try to keep our distribution system in the best possible condition.

However, sometimes the unexpected occurs. The weather, vandals or accidents create safety hazards that we can't possibly discover unless someone tells us about them.

Here are some of the hazards that you should be on the lookout for:

- Damaged or Fallen Utility Pole — When a pole has fallen because of an accident or any other reason, or when it appears to be leaning dangerously, don't go near it. Don't touch anything that may be in contact with the line. Call our office at once and give us any information you have about the situation.
- Trees on Lines — Electric power lines are essentially fixed, but nature (and man) seems to find ways for the trees and lines to come together. When this happens, the tree may become a conductor and present a potential hazard to anyone who comes in contact with it. It can also damage the line and cause an outage. If you know of a case where a tree has grown into a line, call the Illinois Valley Electric Cooperative office. Our crews are trained to handle such hazards quickly and safely.

In summary, we are asking you — the member — to share the responsibility for locating safety hazards along the electric lines that serve you.

If your power goes off

1. Check your main fuses or circuit breakers.
2. Check your meter pole. If you have breakers, make sure they are in the "on" position.
3. If you still have no power, check with your neighbors to see if they have power.
4. Call your cooperative if the source of the power outage cannot be found.
5. Please give the person who answers the phone the member's name as it is billed, and other information requested.
6. For all areas — Galva, Princeton and Ottawa — Call (815) 875-4488. There is always a cooperative representative on call — 24 hours a day.

Katy and Kenny Kilowatt

(The following item represents the thoughts of Mrs. Charles Hagenbuch of Utica as she relates the modern advantages of electricity and two "Kountry Kids." We think you will find it interesting.)

* * * * *

Katy and Kenny Kilowatt are the two finest helpers anyone could hire for home or farm. Very dependable, each year they've reduced the time away from the job, last report was they refused to function about six hours last year — 365 days X 24 hours = 8760 hours - 6 = 8754 hours they were at the switch when we flipped it! As I reflect back on my life I remember soapstones to warm the bed — Katy does it nicely with an electric blanket or automatic heating. No hand pump or gasoline engines to pump the water — Kenny activates the pump — to water the livestock, washing the car, filling the sprayer, oh my, I could go on. Anyone remember starting the gas engine to pump water? We received power from IVEC in November 1941 so the good old days date before then, as far as I'm concerned.

Katy and Kenny challenge anyone to make a list of all the work they do for you — to make life easier and more pleasurable. They hope you will begin to appreciate the system from which they come. They don't hop from one house to another down the city block. Katy and Kenny are Kountry Kids who have brought to rural homes what the City Cousins had for many decades. The Kountry Kids took large giant hops to reach the homes down country roads and lanes and bring electricity for their convenience. Those giant hops were expensive — requiring much more line and poles to hold the system properly but that was the only way Katy and Kenny could reach the farms to serve us.

Make a mental list of all the help Katy and Kenny do — you might be amazed — because we do take a lot for granted. We look at the electric bill and realize for all accomplished from only two helpers — Katy and Kenny, the Kountry Kids, are an excellent investment. They seldom refuse to work, don't require board and lodging — see if you can match that at the Employment Office!

Agriculture outlook

Farm problems 'extend beyond the

There will be a lot more food in the world than people will eat this year and, because of that, American farmers are heading into their fourth straight year of depressed income.

The federal government isn't guessing what farmers will earn in 1983, since Agriculture Secretary John Block banned the traditional farm income estimates a year ago. But analysts at the Agriculture Department's annual Outlook Conference in December doubted net farm income would change much from last year's \$19-billion — more than \$13-billion less than just three years earlier.

As a result, rural areas that depend on agriculture will continue their economic suffering, say Department economists.

"Any improvement will come very slowly," said J. Dawson Ahalt, deputy assistant agriculture secretary for economics. He added, "These financial problems extend beyond the farm gate and affect farm suppliers and other farm-related businesses."

Specifically, crop prices have fallen to 1978 levels as the cost of producing

those crops continues to rise. Land, which farmers have traditionally been able to use as equity for loans to get them through hard times, has fallen in value during the last two years. Farmers' net cash flow decreased \$1-billion in 1982 to a five-year low of \$37-billion and the total farm debt jumped 10 percent.

The reasons for such depressing figures are complex as the world economy itself. Simply stated, there's a food glut. Experts expect that world grain reserves will reach a two-month supply this year, "the highest global stocks-to-use ratio in more than a decade," according to Ahalt. Nearly 60 percent of that surplus is in the United States.

Record production of some crops has come at the same time as a faltering world economy and a stronger dollar have made many countries unable to afford to import as much food, especially from the U.S. The volume of U.S. farm exports dipped two percent last year, but the value of those exports fell 11 percent as the oversupply depressed prices.

"Many of the problems that plagued us in fiscal 1982 unfortunately will not go away in fiscal 1983," said Alan Tracy, deputy under secretary for international affairs. He predicts that while farm exports will rise three percent this year, they will drop in value by four percent.

"The likelihood of a continued strong U.S. dollar, a weak global economic recovery, and smaller Soviet grain imports are likely to restrain the volume and value of U.S. exports," said Tracy.

The Reagan Administration hopes that continuing attempts to develop foreign markets through credit programs and overseas visits by sales teams will combine with a general economic recovery to boost farm exports and prices.

Martin Feldstein, chairman of the White House Council of Economic Advisers, said at last month's Outlook Conference that federal budget deficits expected to top \$150-billion would hurt U.S. exports. Heavy government borrowing forces more competition for credit, he explained, pushing up



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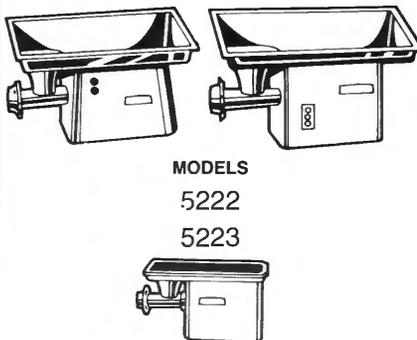
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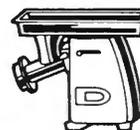


\$250.

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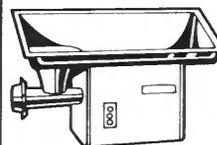
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AND IF YOU EVEN *LOCATE* ONE FOR US, IT'S WORTH **\$25**

Toledo Scale wants these grinders back. Not because they don't work, but because they do. These grinders were designed for safe, efficient use. But they've been around a long time. Many now have original safety equipment removed or damaged. Such conditions pre-

sent a risk of serious injury, to the point of operators losing fingers or hands. If you have one of these Toledo grinders, or know of someone who does, it can be worth money to you and them. Take a look. Then contact us as soon as you can.

CONTACT:

Write to Cindy Szabo, Toledo Scale, 350 W. Wilson Bridge Rd.,
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OR CALL, TOLL-FREE 1-800-848-4375
IN OHIO CALL COLLECT 0-614-438-4909

Toledo Scale/Retail Industry Division/Worthington, OH 43085/1-800-848-4375/In Ohio Call Collect 0-614-438-4909

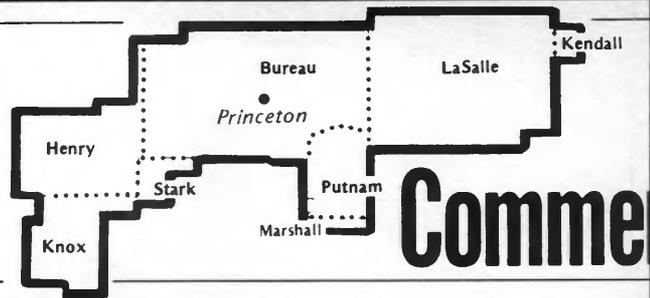
TOLEDO SCALE
RELIANCE ELECTRIC 

Across the manager's desk

by Tim (Kris) Christensen
General Manager



I.V.E.C.



Comme

This is my first opportunity as your manager to communicate directly with each of you, to express my appreciation, and to say that I welcome the challenge of serving you.

This period of time is very difficult for a new manager to assume responsibility in an industry where the future is uncertain on so many issues. On one issue, though, there is certainty. Costs will continue to go up, and consumer rates for members of Illinois Valley Electric Cooperative, and all electric consumers everywhere, will continue to go up.

Your elected board of directors monitors closely the financial condition of your cooperative, and establishes policy it believes to be the most prudent in order to ensure that IVEC remains solvent and capable of assuring the future availability of such a necessary, dependable source of energy as electricity.

In the last several weeks — as I dealt with your board first as a future employee and later in direct involvement as manager — I have been impressed by the efforts of these nine persons and your former manager, Tom McDonald, who has retired.

My previous experience includes some 15 years with four other electric cooperatives. As I work with your board and observe the operation of the cooperative, it is obvious that the board and staff are highly qualified to provide you the highest quality electric service at costs consistent with sound business management.

I anxiously await the opportunity to meet each and every one of you.

IVEC Members

Is this your account number?
0001551000

If it is, please notify Illinois Valley Electric Cooperative, (815) 875-4488, and we will present you with a fine gift.

Rural electric and telephone systems important to economy

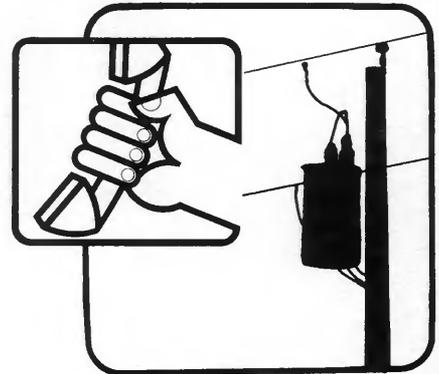
Rural electric and telephone systems financed by the Rural Electrification Administration (REA) were responsible for the creation of more than 27,500 new jobs in rural America during 1981, according to information compiled by REA.

These rural electric and telephone systems participated in 1,216 job-related projects in agriculture, forestry, recreation, housing, community facilities, and manufacturing and services. The most frequent type of assistance rendered was securing or providing plant design or other technical assistance or in securing or providing development assistance.

In addition to these job-related activities, rural electric and telephone systems also provided assistance to more than 600 community groups involving 1,585 community service-type projects. Assistance came through direct contributions, through information and planning activities, through provision of meeting space and clerical and secretarial help, and through technical assistance to community groups as they tackled projects.

REA, in announcing the contribution rural electric and telephone systems have made to the nation's economy, noted that the locally owned electric and telephone systems financed by REA are helping "to encourage greater involvement by private citizens and organizations in the solution of public problems," consistent with the goals of the President's Task Force on Private Sector Initiatives. The Task Force was established in late 1981 to encourage such problem-solving activities, particularly at the community level.

From 1961 through 1980, rural electric leaders alone helped start and



expand nearly 14,000 commercial, industrial and community facility projects, producing nearly 700,000 new jobs. During 1979 alone, community development activities in which rural electric systems took part resulted in more than 30,000 jobs.

Rural electric systems employ over 52,000 people nationwide.

If your power goes off

1. Check your main fuses or circuit breakers.
2. Check your meter pole. If you have breakers, make sure they are in the "on" position.
3. If you still have no power, check with your neighbors to see if they have power.
4. Call your cooperative if the source of the power outage cannot be found.
5. Please give the person who answers the phone the member's name as it is billed, and other information requested.
6. For all areas — Galva, Princeton and Ottawa — Call (815) 875-4488. There is always a cooperative representative on call — 24 hours a day.

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Illinois Valley Electric Cooperative

Office Hours 7:45 A.M. - 4:30 P.M.
 Monday through Friday

Route 6 & 34 West
 Princeton, Illinois 61356

Telephone 815/875-4488

*Serving the rural areas of Bureau, Henry, Kendall,
 Marshall, Knox, LaSalle, Putnam and Stark counties*

Organized: March 28, 1939, at Princeton, Illinois

Washington tour is essay contest award

Illinois Valley Electric Cooperative is sponsoring one high school student on a one-week, expense-paid tour to Washington, D. C., June 10-17. The student will leave from Springfield on Friday, June 10, at 1 p.m. and will return to Springfield about 11 a.m. on Friday, June 17.

The week will be spent traveling to and sightseeing in the nation's capital. While in Washington, the student will have an opportunity to visit places, tour buildings and meet people he or she would not get to see traveling alone. A guided tour of the Gettysburg battlefield is included in the trip to Washington. Qualified chaperones will accompany the tour. The trip participant will be selected as winner of the "Youth to Washington" Essay Contest

sponsored by the Illinois Valley Electric Cooperative.

High school students enrolled in the 10th or 11th grades and who are either 16 or 17, attending a high school located in the eight-county service area of IVEC and whose parents or legal guardians are member-consumers of IVEC are eligible. Also, sons and daughters of IVEC member-consumers who attend any other high school may enter. Previous winners, immediate members of the families of our board of directors and employees are not eligible to enter the contest.

BASIS OF SELECTING WINNERS
 Contestants must submit essay of **NOT LESS THAN 500 WORDS NOR MORE THAN 1,250 WORDS** on an assigned topic. Essay will be judged on

originality, content, accuracy of facts and composition by a panel of judges.

The essay must be typed on 8½ x 11" paper, double spaced, on one side only. Each contestant must submit parents' or legal guardians' written consent to make the trip.

The entry blank below must be received at the IVEC office in Princeton no later than April 7, 1983. Entrants will have until May 6, 1983, to deliver essay entries to the IVEC office in Princeton.

Research materials will be furnished each contestant who submits an essay entry form to IVEC. Potential entrants may obtain research material and detailed information from IVEC by completing and sending in the official entry form below.

'Youth to Washington' Official Entry Form

ILLINOIS VALLEY ELECTRIC COOPERATIVE, INC.
 P.O. Box 70 Princeton, Illinois 61356

Date _____ Name _____

Age _____ Sex _____ Name of School _____

Name of English Teacher _____ Class year (circle) 10 11

Mailing Address _____ Zip _____ Phone _____

I intend to submit an entry in the Illinois Valley Electric Cooperative Essay Contest. I understand that this entry form entitles me to receive research materials to be furnished by the IVEC.

I agree that Illinois Valley Electric Cooperative, Inc. will have exclusive rights to use the essay submitted for this contest.

 Signature of Student

PARENTS' OR LEGAL GUARDIANS' STATEMENT TO GO ON ALL-EXPENSE TRIP TO WASHINGTON, D.C.

We, the undersigned, give permission for _____ if (he or she) becomes a winner of the 1983 Essay Contest, to take the expense-paid tour to Washington, D.C. sponsored by the Illinois Valley Electric Cooperative and the Association of Illinois Electric Cooperatives.

Illinois Valley Electric Cooperative will assume no liability for contestant while on the conducted tour.

 Signature of Parent or Legal Guardian

 Mailing Address

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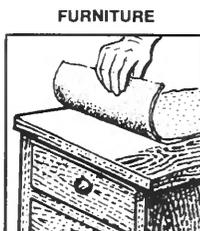
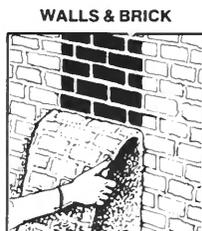
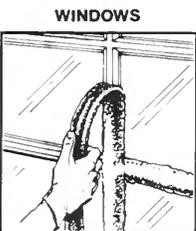
Amazing new formula actually penetrates old paint (varnish and lacquer, too), in minutes. Transforms it into a soft, plastic-like film. Then simply let set. . . lift, roll, strip up to 18 coats of paint away in a single peel-away action! Yes, years of built-up paint peel away as quick and easy as you'd turn this very page! Ends sanding, scraping, chipping and foul-smelling chemicals ONCE AND FOR ALL!

There's no dust up. No clean up. Just a single peel-away action restores the bare, original finish . . . good as new in a flash!

SO EASY EVEN A CHILD CAN DO IT!

Called 'Peel-Away', this new wonder-formula has been officially registered with Gov't. patent offices throughout the World. It is completely odorless—completely safe! Reacts only with paint, varnish, lacquer or shellac . . . nothing else! So you can use it on even finest furniture, precious art frames, why even delicate wicker or valuable painted-over marble. In fact, it is so safe, so gentle, it is used by London's British Museum and world-famous art galleries to strip old art frames and century-old paneling. Even used by antique dealers to strip down priceless furniture treasures for restoration. Yes, 'PEEL-AWAY' literally lifts away every last layer of old paint even from hard-to-get-at places such as impossible-to-reach windowpane corners . . . grooved molding . . . finely tooled woodwork, etc..

SIMPLY COAT IT ON—SEE IT TURN PAINT TO "PAPER" IN JUST MINUTES . . . AND PEEL IT AWAY IN A SINGLE LIFT-OFF-ACTION!



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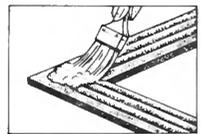
SO ECONOMICAL TOO! MERE PENNIES PER JOB! AND THE PEEL-AWAY MAGIC-FIBRE CLOTH IS COMPLETELY RE-USABLE, GOOD FOR YEARS TO COME!

Peel-Away is every home-owners dream come true. Ideal for indoors on walls, windows, furniture, etc.—plus 101 outdoor uses too. And it costs only a little more than a penny per foot coverage. Homeowner's size alone gives enough coverage to strip away as much as 500 to 750 feet of wall and door trim, window frames, furniture molding, stair railing, patio furniture, roof-gutters . . . its uses are almost endless.

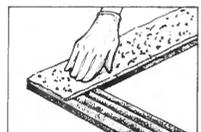
SAVES WORK, SAVES TIME, SAVES MONEY . . . MAKES TAKING OFF PAINT EVEN EASIER THAN PUTTING IT ON!

So for the new low-cost, super-fast way to peel away old paint . . . lift away old lacquer, varnish and shellac . . . order PEEL-AWAY today on full money-back guarantee. REMEMBER: You must be able to simply coat . . . peel . . . lift and strip away up to 18 layers of old paint in a single peel-away action . . . without sanding, scraping, chipping or steel wool . . . or purchase price refunded in full. Order today.

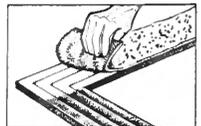
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STEP 2: Cover treated area with magic-fibre 'Lift-tex' stripper-cloth, (included FREE). Let set and adhere to coated surface.



STEP 3: Right before your eyes paint turns to "paper" . . . lifts, peels, strips away IN A FLASH!

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Please RUSH me the quantity of the "PEEL AWAY" New Wonder Formula checked below. If I am not completely satisfied with the way it "peels away" up to 18 coats of paint with just one single application, I may return for a full refund (less postage and handling, of course.)

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- Small Size (enough for up to 3-room apartment) only \$9.95 plus \$2 postage & handling.
- Homeowner Size (enough for regular size homes) only \$16.90 plus \$3 postage & handling. **YOU SAVE \$4.00!**
- Handyman's Super-Size (enough for use in homes with extensive outside trim) only \$31.95 plus \$4 postage & handling. **YOU SAVE \$11.85!**

Amount enclosed \$ _____ (NY residents please add sales tax) No C.O.D.'s please.

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Credit Card # _____ Exp. Date _____

Name _____

Address _____

City _____ State _____ Zip _____

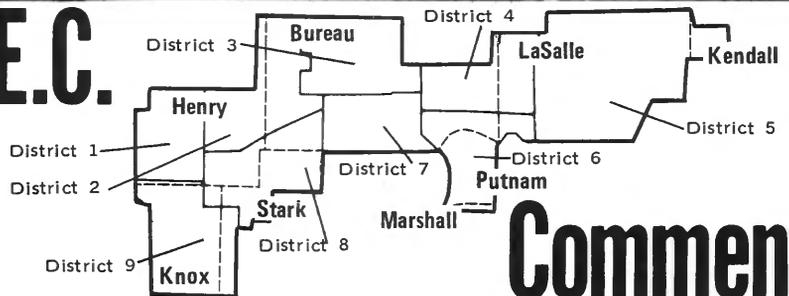
Div. Brand Name Testing, Inc.

Across the manager's desk

by Tim (Kris) Christensen
General Manager



I.V.E.C.



Comments

Over the past several years, you have read about IVEC's membership in Soyland Power Cooperative, a federation of 15 Illinois electric cooperatives. This organization is now 20 years old, and is on the verge of realizing its long-sought goal: self-owned electric generation.

Some ask why owning electric generation is so important. I am going to take just a few lines to answer that question.

As some of you recall, electric cooperatives such as IVEC brought electricity and its convenience to rural areas at a time when the power companies weren't interested. The young cooperatives bought bulk power from investor-owned utilities (IOU's), much as they do today. However, there was always a cloud of uncertainty about future supplies and costs have continued to increase over the years. Some IOU's have even told co-ops that they would no longer be able to provide bulk power at any price.

This combination of costs and uncertain future supplies led the 15 to band together to develop long-term power generation plans for their more than 100,000 member-owners.

A statewide power supply study had concluded that the cooperatives could economically ensure adequate, reliable bulk power supplies by becoming independent of the IOU's. Unsure future power supplies and potential predatory pricing practices are conditions too serious to allow to go untreated. Only through control of the power supply sources could cooperatives ever hope to gain control over their rate destiny.

Your electric cooperative has two directors on the Soyland board. They have closely monitored the direction of IVEC's power supply and its cost and consider the options offered by self-owned generation as the best alternative for IVEC.

1983-84 work plan calls for three new substations

Your board of directors has completed all the necessary paperwork on the Illinois Valley Electric Cooperative work plan for 1983-1984. Four major projects are planned, including three new substations and one major substation upgrading. Also planned to be completed by the end of calendar 1984 are projects including 10 miles of new distribution line, 68 miles of upgraded distribution line and 7½ miles of new transmission line.

The new substations will be constructed southeast of Mark in Putnam County, northwest of Princeton in Bureau County and southeast of Neponset in Bureau County. Major rebuilding of the present Altona substation southwest of Galva will also be undertaken.

Work will be performed both by Illinois Valley Electric Cooperative

employees and contractor work crews, which will do specialized construction work. The work plan calls for system improvements throughout the area served by IVEC.

The purpose of the two-year work plan is to further correct the cooperative's electrical distribution system to continue to provide adequate and reliable service to all members. These projects are planned in anticipation of power requirements in the 1983-84 and 1984-85 winter peaking periods.

IVEC Members

Is this your account number?
0001716500

If it is, please notify Illinois Valley Electric Cooperative, (815) 875-4488, and we will present you with a fine gift.

Statement of non-discrimination

Illinois Valley Electric Cooperative, Inc., has filed with the Federal Government a compliance assurance in which it assures the Rural Electrification Administration that it will comply fully with all requirements of Title VI of the Civil Rights act of 1964 and the Rules and Regulations of the Department of Agriculture issued thereunder, to the end that no person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the conduct of its program and the operation of its program facilities. Under this Assurance, this organization is committed not to discriminate against any person on the ground of race, color, or national origin in its policies and practices relating to treatment of beneficiaries and participants including rates, conditions, and extension of service, use of any of its facilities atten-

dance at and participation in any rights of such beneficiaries and participant in the conduct of the operation of this organization.

Any person who believes himself, or any specific class of individuals, to be subjected by this organization to discrimination prohibited by Title VI of the Act and the Rules and Regulations issued thereunder may, by himself or a representative, file with the Secretary of Agriculture, Washington, D.C. 20250, or the Rural Electrification Administration, Washington, D.C. 20250 or the organization, or all a written complaint. Such complaint must be filed not later than 90 days after the alleged discrimination, or by such later date to which the Secretary of Agriculture or the Rural Electrification Administration extends the time for filing. Identity of complaints will be kept confidential except to the extent necessary to carry out the purpose of the Rules and Regulations.

BOARD OF DIRECTORS

- President Albert Hagenbuch, Utica — Dist. 5
- Vice President . . . Vincent Fredrickson, Victoria — Dist. 9
- Secretary Eugene W. Kunkel, Granville — Dist. 6
- Treasurer Tom Cole, Sheffield — Dist. 3
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- Director Earl Bates, Kewanee — Dist. 2
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Illinois Valley Electric Cooperative

Office Hours 7:45 A.M. — 4:30 P.M.
Monday through Friday

Route 6 & 34 West
Princeton, Illinois 61356

Telephone 815/875-4488

*Serving the rural areas of Bureau, Henry, Kendall,
Marshall, Knox, LaSalle, Putnam and Stark counties*

Organized: March 28, 1939, at Princeton, Illinois

Washington tour is essay contest award

Illinois Valley Electric Cooperative is sponsoring one high school student on a one-week, expense-paid tour to Washington, D. C., June 10-17. The student will leave from Springfield on Friday, June 10, at 1 p.m. and will return to Springfield about 11 a.m. on Friday, June 17.

The week will be spent traveling to and sightseeing in the nation's capital. While in Washington, the student will have an opportunity to visit places, tour buildings and meet people he or she would not get to see traveling alone. A guided tour of the Gettysburg battlefield is included in the trip to Washington. Qualified chaperones will accompany the tour. The trip participant will be selected as winner of the "Youth to Washington" Essay Contest

sponsored by the Illinois Valley Electric Cooperative.

High school students enrolled in the 10th or 11th grades and who are either 16 or 17, attending a high school located in the eight-county service area of IVEC and whose parents or legal guardians are member-consumers of IVEC are eligible. Also, sons and daughters of IVEC member-consumers who attend any other high school may enter. Previous winners, immediate members of the families of our board of directors and employees are not eligible to enter the contest.

BASIS OF SELECTING WINNERS

Contestants must submit essay of **NOT LESS THAN 500 WORDS NOR MORE THAN 1,250 WORDS** on an assigned topic. Essay will be judged on

originality, content, accuracy of facts and composition by a panel of judges.

The essay must be typed on 8½ x 11" paper, double spaced, on one side only. Each contestant must submit parents' or legal guardians' written consent to make the trip.

The entry blank below must be received at the IVEC office in Princeton no later than April 7, 1983. Entrants will have until May 6, 1983, to deliver essay entries to the IVEC office in Princeton.

Research materials will be furnished each contestant who submits an essay entry form to IVEC. Potential entrants may obtain research material and detailed information from IVEC by completing and sending in the official entry form below.

'Youth to Washington' Official Entry Form

ILLINOIS VALLEY ELECTRIC COOPERATIVE, INC.
P.O. Box 70 Princeton, Illinois 61356

Date _____ Name _____

Age _____ Sex _____ Name of School _____

Name of English Teacher _____ Class year (circle) 10 11

Mailing Address _____ Zip _____ Phone _____

I intend to submit an entry in the Illinois Valley Electric Cooperative Essay Contest. I understand that this entry form entitles me to receive research materials to be furnished by the IVEC.

I agree that Illinois Valley Electric Cooperative, Inc. will have exclusive rights to use the essay submitted for this contest.

Signature of Student

PARENTS' OR LEGAL GUARDIANS' STATEMENT TO GO ON ALL-EXPENSE TRIP TO WASHINGTON, D.C.

We, the undersigned, give permission for _____ if (he or she) becomes a winner of the 1983 Essay Contest, to take the expense-paid tour to Washington, D.C. sponsored by the Illinois Valley Electric Cooperative and the Association of Illinois Electric Cooperatives.

Illinois Valley Electric Cooperative will assume no liability for contestant while on the conducted tour.

Signature of Parent or Legal Guardian

Mailing Address

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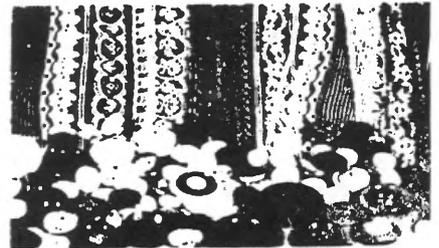
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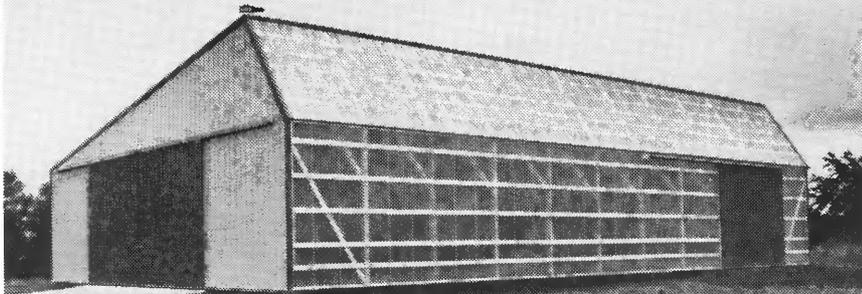


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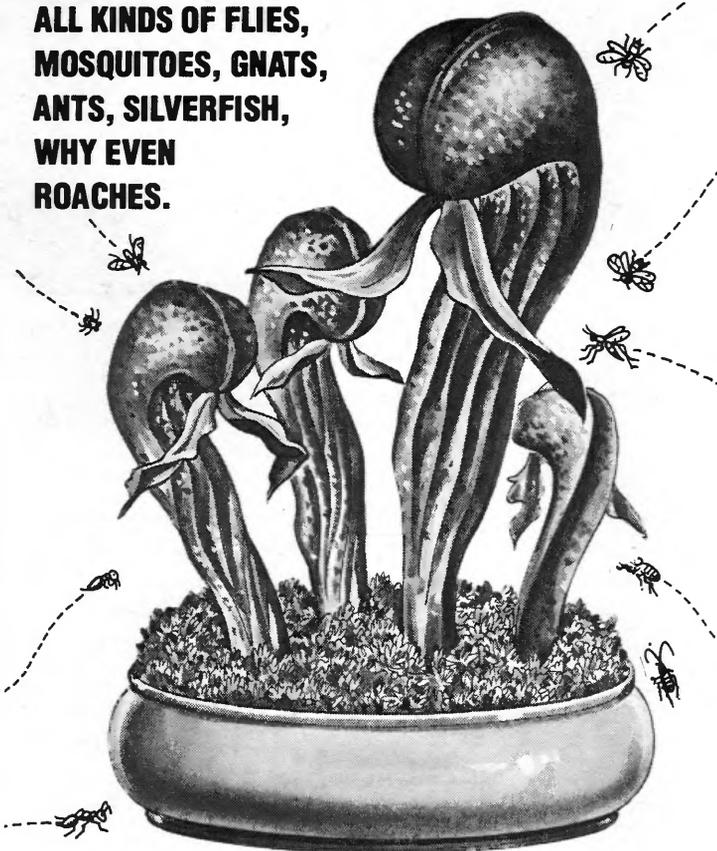
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**GIVES OFF AN INVISIBLE HONEY-SCENT, INSECTS
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Imagine if you can, one of the world's most breathtakingly beautiful house-plants . . . that to human eyes looks like a giant "flower show" Tropical Lily—but to insects that are unlucky enough to come near it, spells SURE, CERTAIN DEATH!

Yes, a wonder of nature that not only erupts with lavish displays of beautiful golden spring blooms . . . as it lines itself up like a squad of insect destroying sentries, mammoth heads on the constant alert against flying, crawling creeping insects that dare to invade your room and set foot near it.

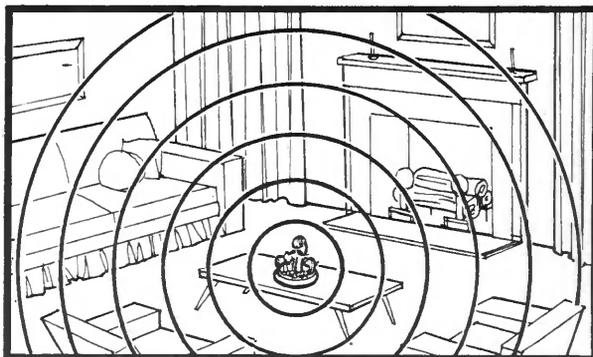
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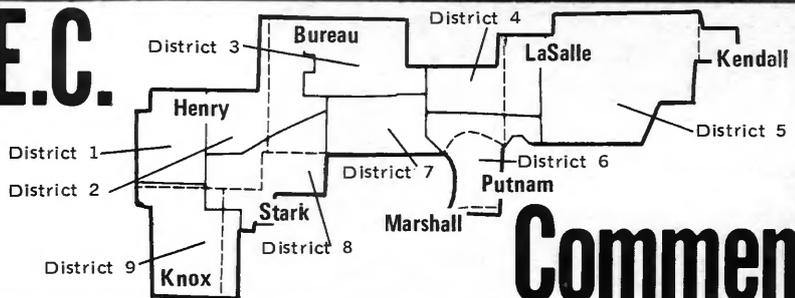
NAME _____
Address _____
City _____ State _____ Zip _____

Across the manager's desk

by Tim (Kris) Christensen
General Manager



I.V.E.C.



Comment

The last several months have brought a number of changes that affect your Cooperative. Last month I talked with you about Soyland Power Cooperative and the need for cooperative-owned self-generation of electricity. Illinois Valley Electric Cooperative is one of the 15 Illinois distribution cooperatives that make up Soyland, and the decisions in recent weeks by the Soyland Board will have significant impact on IVEC.

The Soyland board has deferred plans to begin construction of a coal-fired generating plant in Pike County. That decision was made in the wake of a number of offers from nearby utilities to sell generating capacity to Soyland at a cost below that of building its own plant.

Soyland's objective is to provide the lowest cost energy for its members. The board's decision was based on the latest information, which indicated that purchase of generating capacity from someone else was the best alternative when compared to building the Pike plant.

When Soyland's board decided to build the Pike plant, cooperative loads were growing at a rate of 10-12 percent each year. During the last five years, loads of most Midwest utilities have been increasing by only about two percent. Rapid inflation and increased regulation have driven up the cost of plant construction, too.

When the decision was made to build the plant, utilities that provide Soyland members with bulk power were willing to sell only on short-term contract, subject to annual escalation and month-to-month wholesale fuel cost adjustments.

It could very well be that had Soyland not pursued the building of the Pike plant and obtained a loan guarantee, these offers of capacity ownership or long-term agreements might not have been made.

IVEC policies

Memberships and deposits

The members of the Cooperative, by dealing with the Cooperative, acknowledge that the terms and provisions of the articles of incorporation and by-laws shall constitute and be a contract between the Cooperative and each member, and both the Cooperative and the members are bound by such contract, as fully as though each member had individually signed a separate instrument containing such terms and provisions. All member-consumers are required to pay a \$5.00 membership fee, and sign and complete a membership application.

A \$50 meter deposit shall be in addition to the \$5 membership fee. All member-consumers renting houses, farms or non-farms are required to pay a deposit of \$50 in addition to \$5 for membership fees, all of which will be applied against any balance due the Cooperative when such member-consumers move off the lines of the Cooperative. In the event any such consumers occupy a house that is electrically heated the deposit shall be set by the Cooperative.

Commercial member-consumers who are renting or leasing business property may be required, where it is deemed necessary by the Cooperative, to pay a higher deposit to adequately secure the payment of future and final bills.

No service shall be furnished to any member or non-member consumer who is required to pay a deposit until his deposit and membership fee are paid in full. However, the cooperative may, at the discretion of the General Manager or Director of Office Services and Accounting, furnish electric service to such consumer on a tempor-

ary basis not to exceed 15 days.

Any existing member-consumer, whether an owner, landlord operator, renter, farmer, employee, or other, may be required to pay a deposit as determined by such member consumer's average bill for a two month period should the payments from that member be received after the 10th for two consecutive months of billing.

A cash security deposit, of more than \$50, may be required in order to establish credit. A deposit as determined by such a member-consumer's average bill for a two month period may be required of member-consumer or non member-consumer who are unable to establish a satisfactory credit reference.

Service will not be furnished to former member-consumers until any indebtedness to the Cooperative for previous service has been satisfied. In the event that a member has an unpaid account 60 days after he has ceased to receive electric service from the Cooperative, a portion of the meter deposit equal to the unpaid account shall be credited to the unpaid account. Any balance from the meter deposit shall be mailed to the member at his last known address.

A commercial consumer of non-farm member's deposit will be refunded upon the payment of all charges due the Cooperative under any of the rate schedules or construction agreements, and surrender of deposit to the last member of record. The Cooperative shall at all times be operated for benefit of its member-consumers. No interest shall be paid by the Cooperative on any deposit furnished by the member-consumer.

BOARD OF DIRECTORS

- President Albert Hagenbuch, Utica — Dist. 5
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- Secretary Eugene W. Kunkel, Granville — Dist. 6
- Treasurer Tom Cole, Sheffield — Dist. 3
- Asst. Secretary Joe Danielson, Princeton — Dist. 7
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- Director Earl Bates, Kewanee — Dist. 2
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Illinois Valley Electric Cooperative

Office Hours 7:45 A.M. — 4:30 P.M.
Monday through Friday

Route 6 & 34 West
Princeton, Illinois 61356

Telephone 815/875-4488

Serving the rural areas of Bureau, Henry, Kendall, Marshall, Knox, LaSalle, Putnam and Stark counties

Organized: March 28, 1939, at Princeton, Illinois

Check your daily electricity usage

Ever wonder how you could have used all of that electricity? Most folks find themselves wondering this when it comes time to pay the monthly electric service bill. The usual reaction is: "There is just no way we could have used that much energy." However, the meter indicates that the recorded amount has been used, and the amount of the bill is due.

If this happens rather frequently, it might be a good idea to follow the advice of your cooperative and try checking your daily kWh usage.

By using a handy chart (clipped from this page) members may record the amount of electric energy used on a daily basis. Take just a few minutes each day (preferably at the same time) and jot down the reading on your electric meter.

Begin any day by recording the meter reading. Then, by subtracting the previous day's reading from the current reading each day, you get the number of kilowatt-hours used during that 24-hour period. By adding the daily figures into a weekly total, you can see how much — and when — and for what — you and your family used energy.

Electric meters (that haven't been tampered with) are very accurate. When the meter records an unusually high amount of energy used in a given day, try to determine how that energy was consumed. It's far easier to determine if the family has used the heating more than usual, or if larger than usual amounts of laundry have been washed or dried, on the day this has been done. Let's face it, after the time lapse has gone beyond 48 hours it's extremely hard for most of us to remember exactly what was done in the area of energy consumption.

So by checking and finding the activities which consume unexpected amounts of energy, we can take whatever steps are necessary to remedy the situation. When using the kWh usage chart you can keep a close check on the jobs which you are doing involving unexpected usage. At the end of the month you can figure your own kWh usage for the one month period.

METER MONITOR CHART

END OF MONTH READING _____ KWH USAGE _____

AMOUNT OF BILL _____

Note: To obtain daily kWh usage subtract previous day's reading from current day's reading.

Daily Reading	kWh Used Daily	JOBS PERFORMED
1		
2		
3		
4		
5		
6		
7		
Weekly total		
8		
9		
10		
11		
12		
13		
14		
Weekly total		
15		
16		
17		
18		
19		
20		
21		
Weekly total		
22		
23		
24		
25		
26		
27		
28		
Weekly total		
29		
30		
31		
Extra Days Total		
MONTHLY TOTAL		

IVEC Members

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ILRE1

energy efficiency

too, but it will not do as good a job as groundwater, because the temperature fluctuates. Still, using an existing pond may be a better bet than drilling a new well or two.

For those not fortunate enough to have a good water supply, there is yet another alternative, but its attractiveness is somewhat dampened by its fairly stiff initial cost. It is called a "closed loop earth-coupled system," and it involves laying a large grid of plastic piping about six feet underground, where the temperature remains fairly constant all year long.

After filling the loop with water, you connect your water-to-air heat pump in the usual way. The earth's insulating properties take over from there, providing a home-grown source of even-temperature "groundwater," even when the winter winds are howling outside.

About 20,000 of the systems are perking away, mostly in Canada, Sweden and Germany, and there is no great hurdle to making them work here, too, except the initial cost. You will need to buy about 400-500 feet of pipe for each ton of air-conditioning capacity on the cooling side of your heat pump. The average 1,500-square-foot home, incidentally will have about a two-ton unit.

After swallowing the initial cost, you have a system capable of providing years of relatively low-cost heating and cooling.

To summarize, a heat pump is a good way to heat and cool your home with one unit, and a water-to-air heat pump is better yet, because of increased efficiency.

A study performed in early 1982 showed that for a home requiring 100-million British thermal units (Btu's), a groundwater heat pump cost only \$3.59 more to heat for a winter than a well-maintained natural gas furnace with spark ignition and an automatic flue damper. To heat the same home with a propane furnace

May 1983

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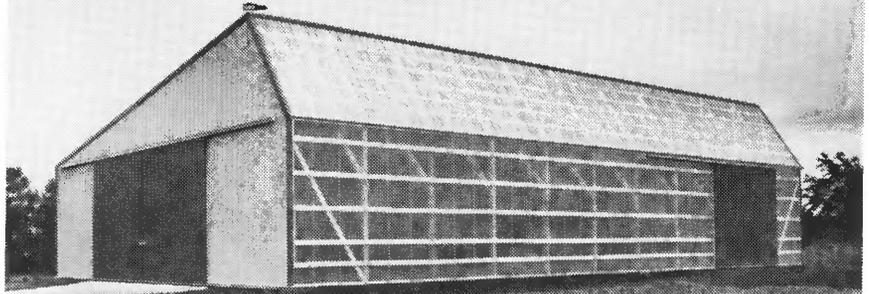
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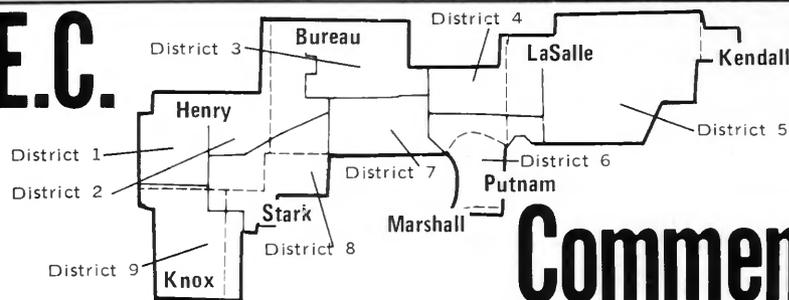
Across the manager's desk

by Tim (Kris) Christensen

General Manager



I.V.E.C.



Comments

When vacation time comes, and you're planning to be gone for a couple of weeks or so, your electric bill should decrease significantly, right? Wrong!

Many people believe that when they leave on vacation, their electric meter stops until they return. If they are on vacation for two weeks, they expect their electric bill to be cut in half. Let's ask ourselves a few questions before we assume our electric bill should decrease by any considerable amount during vacation time.

First, was the water heater turned off during your vacation? Remember, if the electric water heater is left energized during vacation, it will continue to operate and maintain the tank temperature even if you're not using any hot water.

Were the refrigerator and freezers emptied and turned off? If not, they will continue to operate to maintain the preset temperatures.

Take a look at other electrical appliances that keep running while you are on vacation — clocks, attic fans and power ventilators, heating and air conditioning equipment, lights, and TV sets with the "instant-on" feature.

If you are determined that no electricity is to be used during your vacation, you can accomplish this by turning off your main breaker or pulling the main disconnect. But remember, when you do this, the automatic appliances will stop. Your refrigerator and freezer will defrost, your electric water heater will not have hot water ready for use upon your return, and your home may be too hot or too cold when you walk in the door. It's a decision only you can make. Perhaps you can make arrangements with a neighbor to keep an eye on your place and adjust the heat, water heater and/or air conditioner shortly before you return.

IVEC policies

READING THE METER

Each member-consumer is required to read his or her own meters each month. The meter reading should be taken the first day of every month so that you will be billed for one month's usage. Readings should be recorded on your remittance stub and returned to the cooperative with your payment. Electric bills are sent to members near the end of each month. All members should have received their bills by the first of each month. If you don't receive it soon after the first of the month, notify the cooperative office so we can send you a duplicate bill.

Each member has a minimum of 10 days to pay his or her bill before a late

payment charge is assessed. Most members pay their bill during the net pay period. A small percentage of members pay their bills late (after the 10th) and are assessed the late payment charge. Paying after the 10th results in extra labor, administrative paperwork and accounting procedures, which mean more costs to IVEC.

If you must pay after the 10th of the month be sure to make your payment early enough to insure that the payment is in the cooperative office on or before the 20th of the month. Electric service is subject to disconnection for all accounts not paid on or before the 20th of the month.

DISCONNECTING ELECTRIC SERVICE

A past due notice, which accompanies the notice of discontinuation of service, will show the date by which past due payments must be made to avoid shut-off of electric service. If you cannot pay the entire amount, you may be able to qualify for a deferred payment agreement with the cooperative. Check with the cooperative headquarters (815) 875-4488 for more information.

Employees of the cooperative are on duty Monday through Friday (except holidays) from 7:45 a.m. until 4:30 p.m. to answer questions about past due notices or notices of discontinuation. Please call or come in before you are disconnected. The cooperative can provide names, addresses and telephone numbers of government and private agencies which may provide assistance in paying your bill.

In the event your electric service is discontinued under provisions of the board policy, you are required to pay disconnect and reconnect charges of \$45.00 each if the request is made before 2 p.m. After 2 p.m. a \$70.00

charge will be assessed for reconnection. (Fees and trip charges are subject to review by the Board of Directors and may change without notice.) A \$45.00 trip charge shall be assessed for the following purposes:

1. To collect on a check returned to the Cooperative by the bank.
2. To exchange meters at the member's request for testing purposes.
3. To read the member's meter if requested to do so, or if the member has failed to provide readings for two consecutive months.
4. To shut off electric service as a result of the member's failure to pay the required membership and other fees by the due date.

POWER OUTAGES: If you have a power outage, please check:

1. Main fuses or circuit breakers.
2. Meter pole. If you have breakers, make sure they are in the "on" position.

If you still have no power, check with your neighbors to see if they have power.

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- Treasurer Tom Cole, Sheffield — Dist. 3
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Illinois Valley Electric Cooperative

Office Hours 7:45 A.M. — 4:30 P.M.

Route 6 & 34 West

Monday through Friday

Princeton, Illinois 61356

Telephone 815/875-4488

Serving the rural areas of Bureau, Henry, Kendall, Marshall, Knox, LaSalle, Putnam and Stark counties

Organized: March 28, 1939, at Princeton, Illinois

High bill checklist

Today's energy costs cause everyone to become very conscious of utility bills. The following checklist was designed to give you the opportunity to investigate your electric bill. Put a check (✓) beside the item that pertains to you. Should you have any further questions, please contact the Member Services Department.

1. Does your bill represent *high usage* or a *high dollar amount*? Check to see if your bill is read or estimated.
 - _____ A. Is the estimated bill too high or too low? The next bill will require an adjustment.
 - _____ B. Did your last payment reach our office before the 20th of the month? If not, it may not have been deducted from your account.
 - _____ C. If the usage appears normal and you have no indication why the bill is too high, call the office for explanation.
 - _____ D. If the *usage* is higher than usual, go on to Step 2.
2. Is the hot water system malfunctioning?
 - A. Is the temperature too high (check with candy thermometer)?
 - _____ a. If you have a dishwasher, are the thermostats set at 140 degrees F?
 - _____ b. If you don't have a dishwasher; are the thermostats set at 120 degrees F or lower? (Adjust to suit the needs of your family.)
 - _____ c. If the thermostats are set to desired temperature, but water is much hotter, it indicates a bad thermostat and a dangerous condition.
 - B. Look for leaks in the system.
 - _____ a. Check for leaks in the tank. A small leak in the tank can wet the insulation, causing heat loss to increase significantly as well as losing the hot water itself.
 - _____ b. Look for small leaks in plumbing in walls, etc. These can go unnoticed for long periods of time, causing high electrical usage and structural damage to the home.
 - C. Check for bad elements; they can cause high usage. The electricity can flow through the water without heating it and can shock you

via the plumbing. You may find the bad element by running out of hot water. The element just wastes electricity and doesn't heat.

Note: The active electrical troubleshooting of elements and thermostats should be left to your electrician or appliance center representative.

3. Electric Heat

- _____ A. Do you use a portable heater occasionally; 1500W used for two hours per day adds up to 90 kilowatt-hours per month. If they are forgotten and run for 10 hours a day, they use 450 kilowatt-hours per month.
- _____ B. Do you have built-in baseboard not used because of other (wood or ?) heat being used? Is it turned off at the circuit breaker? Some thermostate do not turn off, only down.

The following are common culprits of electric usage. Do any one or more of these pertain to you?

- _____ 4. Water pump — the submersibles are more efficient but have been found running continually with no one knowing it! Make sure the tank is not waterlogged; it's hard on the pump physically and consumes more electricity due to starting torque.
- _____ 5. Refrigerator — does it need defrosted? Can the seal hold a piece of paper snugly all the way around? If it has an energy-saver switch, is it in the saving position except when humidity forms around the door?
- _____ 6. A typical dehumidifier running 24 hours per day would use about 400 kilowatt-hours per month.
- _____ 7. Are any appliances, pipes or other devices in your home shocking you? This could indicate a short circuit causing a dangerous condition as well as wasted electricity.

IVEC Members

Is this your account number?

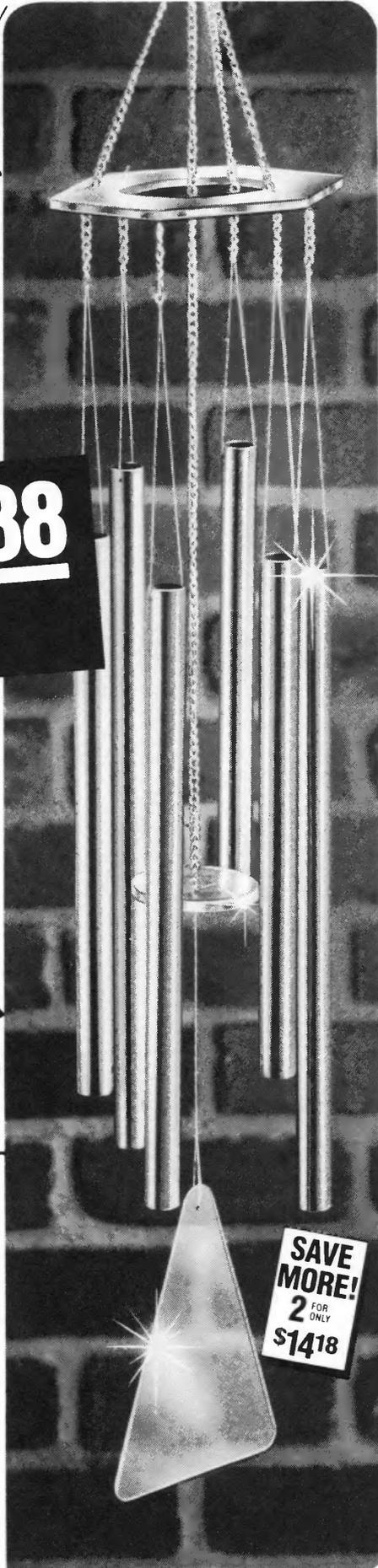
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If it is, please notify Illinois Valley Electric Cooperative, (815) 875-4488, and we will present you with a fine gift.

Last month's winners were Mr. and Mrs. Bernard T. Navin, Route 1, LaSalle. They were awarded a four-slice toaster. Check to see if this month's account number is yours.

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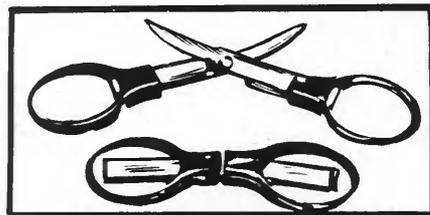
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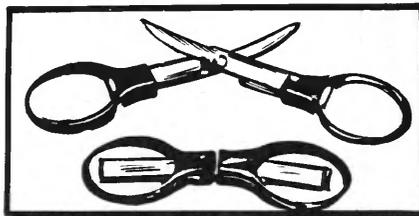
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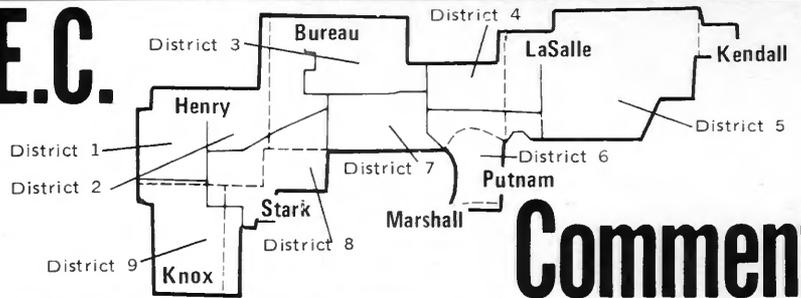
REN I

Across the manager's desk

by Tim (Kris) Christensen
General Manager



I.V.E.C.



Comments

Electric rates — why so much difference? The difference in rates is a complicated question and has no simple answer. Anyone who supplies a simple answer isn't giving you the total picture.

I first want to explain that there is a considerable difference in rates between the large power companies. An article I read recently gave the difference in average cost per kilowatt-hour for residents in some cities across the United States. These costs are now two years old so would probably need to be revised upward to be compared with today's rates but are used here to show the wide spread.

New York City	—	11.67¢/kwh
San Diego	—	9.89¢/kwh
Boston	—	9.45¢/kwh
El Paso, Tex.	—	8.46¢/kwh
Chicago	—	6.64¢/kwh
Atlanta	—	4.70¢/kwh
St. Louis, Mo.	—	4.36¢/kwh

Some of the reasons for these differences are:

1. Type of fuel used in generating plants,
2. When the major portions of the generating plants were built,
3. When other major portions of the transmission or distribution systems were built.

There are other factors but these will suffice for the present.

Taking each of these factors, let me give a few reasons why they are significant.

Type of fuel for generation — A plant built to use fuel oil to develop steam for generation before the oil embargo was praised for helping clean up the air and producing low-cost electricity. After the embargo, guess what: electricity costs escalated overnight. Natural gas plants produced low-cost power and produced very little pollution until the gas shortage when some were forced to change to coal and then add stack scrubbers to clean up the



Michele Hepner is the winner of the 1983 Illinois Valley Youth to Washington Essay Contest. Presenting Michele with her winner's certificate is IVEC Manager Kris Christensen. At the left is Marvin Damron, principal of Kewanee High School, at which Michele will be a senior this fall. Looking on is Jack Best, assistant manager of IVEC. Michele, daughter of Mr. and Mrs. Alvin Hepner of rural Kewanee, was selected winner of a week-long, all-expenses-paid tour to Washington, D.C., June 10-17, in competition this spring open to IVEC members' children who were sophomores or juniors in high school. A panel of judges in Springfield judged this year's entries.

air. Coal-fired plants probably have the lowest-cost fuel but the highest costs for pollution-control equipment. Older nuclear plants have produced the lowest-cost power, with the exception of hydro power, which is limited in the midwest. Changes in government regulation, variations in supply and demand for the different types of fuels as well as other factors have caused great differences in the cost of electric power from area to area and company to company during the past 10 years.

When the generating plants were built — The average life of a generating plant is 30-35 years. Any company that has needed to replace old generating plants or build new ones for additional capacity during the last 10-12 years has had to contend with years of high inflation rates (higher than

cost of living as we think of it), high short-term and long-term interest rates, longer construction time due to government regulation, added components for pollution control, etc. Therefore, any company with a large portion of its electricity coming from one or more of these plants will have much higher rates than one who built most of its generating capacity before this period of time. There are examples of these differences between companies operating in Illinois.

The difference in the time other major portions of transmission and distribution systems were built are very similar to those involved in plants.

These are only a few of the major factors that have caused wide variations in the cost of electricity produced by large companies.

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Office Hours 7:45 A.M. — 4:30 P.M.
Monday through Friday

Route 6 & 34 West
Princeton, Illinois 61356

Telephone 815/875-4488

*Serving the rural areas of Bureau, Henry, Kendall,
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Organized: March 28, 1939, at Princeton, Illinois

IVEC policy

Deferred payment

All residential consumer-members or residential non-members who are indebted to the cooperative shall be given the opportunity to make arrangements with the cooperative to retire the debt by periodic payments referred to hereinafter as a deferred payment agreement unless the consumer-member or non-member has failed to make payment under such a plan during the past 12 months.

At the discretion of the cooperative, all applicants for service and non-residential consumer-members who are indebted to the cooperative for past due electric service may have the opportunity to make arrangements with the cooperative to retire the debt under provision of a deferred payment agreement.

The terms and conditions of the deferred payment agreement will be

determined by the cooperative after consideration of the following:

- A. Size of past due account,
- B. The consumer-member's or non-member's ability to pay,
- C. Consumer-member's or non-member's payment history,
- D. Reasons for indebtedness, and
- E. Any other relevant factors relating to consumer-member's or non-member's electric service.

A residential consumer-member or residential non-member will be required to pay no more than one-fourth of the amount past due at the time of entering into a deferred payment agreement.

A non-residential consumer-member or non-member will be required to pay at least one-third of the amount past due at the time of entering into a deferred payment agreement.

The cooperative will allow a minimum of two months from the date of said agreement and a maximum of 12 months to retire the indebtedness to the cooperative.

A late payment charge will be assessed by the cooperative against the amount owed which is subject to a deferred payment agreement.

A deferred payment agreement shall be in writing, with a copy provided to the applicant or member, and will include the following provisions:

A. The applicant or member shall be required to pay all future bills for electric service by the due date; and

B. The applicant or member shall retire his/her debt according to the terms of the deferred payment agreement.

If an applicant or member defaults upon any payment due under the deferred payment agreement, the cooperative shall have the right to discontinue service to the applicant or member.

How to figure cost of operation

Occasionally you might wonder how much electricity an appliance uses, and how much it costs to operate. Perhaps you want to know this before buying an item. Or perhaps you would like to identify where your monthly electricity is going.

Determining the operating cost of electrical appliances is really quite simple, if you understand some basic electrical terms and a few simple factors.

First of all, the basic terms:

A watt is a measurement of electricity. Appliances, light bulbs and most electrical equipment are usually labeled with the amount of watts they use. A kilowatt is 1,000 watts (kilo is 1,000). A kilowatt-hour (kWh) is 1,000 watts used for one hour. For

instance, a 100-watt bulb used 10 hours equals one kWh.

The factors that must be known are: (1) the wattage of the appliance; (2) the number of hours it operates; and (3) your cost of electricity.

The wattage of appliances or electric equipment varies greatly. Usually this figure can be found on the serial plate or wherever pertinent information is given. Sometimes the electrical requirements of a particular appliance may be expressed in volts and amperes, rather than watts. If so, multiply the number of volts times the number of amperes (120 volts x 4 amp. equals 480 watts).

Once you know the number of watts, you multiply this by the number of hours the appliance is on and

divide by 1,000. Then you take the cost of a kilowatt-hour of electricity from your monthly bill, and multiply this by the result of the above formula.

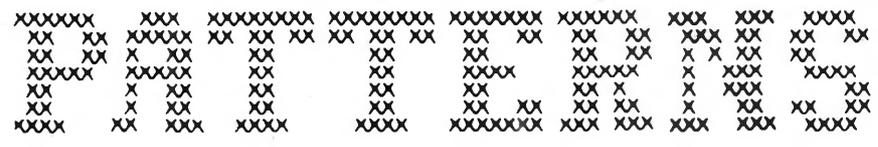
For instance, say you have a television set that is rated at 250 watts, and is used an average of four hours a day — about 120 hours (4 x 30) a month. Using the formula, 250 watts times 120 hours is 30,000. Divide by 1,000 and you have 30 kilowatt-hours used in a month by this TV.

IVEC Members

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- No. 9050 is cut in Women's Sizes (34, 36, 38), (40, 42, 44), (46, 48, 50). Order your regular size.
- No. 4996 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes ¾ yards 45-inch fabric.
- No. 9413 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½, 24½, 26½. Size 14½ (bust 37) takes 2¼ yards 60-inch.
- No. 9048 is cut in Waist Sizes 24, 25, 26½, 28, 30, 32, 34. Size 26½ wrap 2 yards 45-inch; other 1-7/8.
- No. 9195 is cut in Women's Sizes 36, 38, 40, 42, 44, 46, 48, 50. Yardages given in pattern.
- No. 9420 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 4½ yards 45-inch.
- No. 9346 is cut in sizes 2, 4, 6, 8. See patterns for yardages.
- No. 4531 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 2-5/8 yards 45-inch fabric.
- No. 9174 is cut in sizes (6, 8, 10, 12) (14, 16, 18, 20). Order your regular size.

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State _____ Zip _____

Highlights

(Continued from page 5)

Among the many notable experiences for Illinois youth participating in the 1983 Tour were visits to Gettysburg National Military Park, new National Aquarium at Baltimore, Air and Space Museum at the Smithsonian Institution, Library of Congress, Mt. Vernon, Arlington Cemetery, Lincoln Memorial, Washington Monument, Jefferson Memorial, Viet-

nam War Memorial and National Zoo.

A large number of the students on the tour were winners of all-expense-paid trips as winners of their local cooperatives' essay contests. Others participated as "Willie Wiredhand" tourists, including students who did not win their cooperatives' contest and children and grandchildren of cooperative directors and employees, who are not eligible for the essay competition. "Willie" participants pay all their own expenses.

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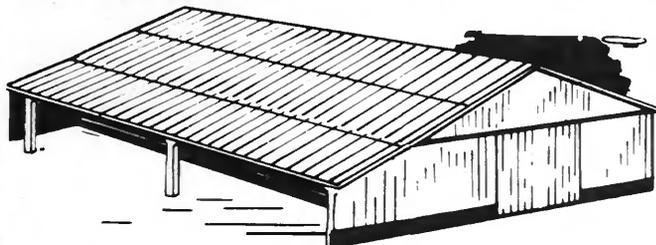
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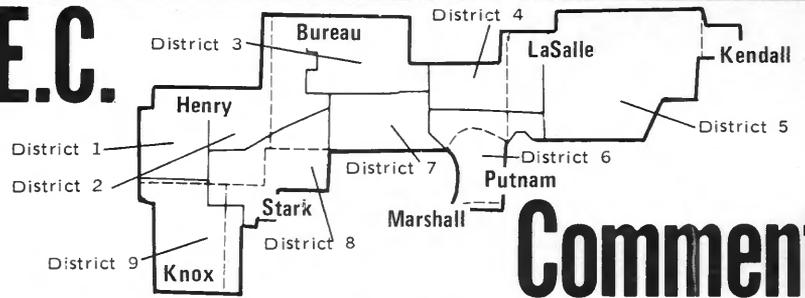
State _____ Zip _____

Across the manager's desk

by Tim (Kris) Christensen
General Manager



I.V.E.C.



Comments

Rural electric cooperatives have installed nearly one-half of the nation's electric poles and power lines across 70 percent of the land mass to serve about 10 percent of the country's population. About four to five families, on the average, are served by each mile of power line in areas served by electric cooperatives.

Even with insured and guaranteed loan programs funded through the Rural Electrification Administration to help ease the financial burden of serving the rural areas, it still costs more — the national average is 12 percent more — to provide electric service in rural areas when compared to urban areas.

The federal Office of Management and Budget has again proposed drastic reductions in REA rural electric loan programs, even after Congress resoundingly rejected similar proposals in each of the last two years. The OMB proposals still don't make sense, and they could compound inequities that already exist.

Let's look at the facts.

Today, loan funds for the rural systems do not come from taxpayer dollars, but from the principal and interest repayments on old loans and from the nation's money markets through loan guarantees. The so-called "savings" projected by OMB from cuts in rural electric loan programs do not exist and would certainly not reduce the federal budget or deficit.

Rural electrification is one of the nation's greatest success stories, and its benefits reach all Americans by providing dependable, affordable electric service to more than 25 million rural people.

Cutting the loan programs that are so vital to rural electric cooperatives would do nothing to further our country's economic goals, but would serve to increase the cost of electric service in rural areas.



Line construction

Your Cooperative's current work plan includes a number of system improvement projects, including substation and line work. The photos show work performed in late winter and early spring to upgrade an existing line through a swamp west of Hennepin. You will note by the short-sleeved shirts that the weather was a major contributor to shortening the time necessary to complete this upgrading and line extension. The projects continue this summer as crews, both clearing and construction, work to further correct the Cooperative's electrical distribution system to continue to provide adequate and reliable service to all members.

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Office Hours 7:45 A.M. — 4:30 P.M.
Monday through Friday

Route 6 & 34 West
Princeton, Illinois 61356

Telephone 815/875-4488

*Serving the rural areas of Bureau, Henry, Kendall,
Marshall, Knox, LaSalle, Putnam and Stark counties*

Organized: March 28, 1939, at Princeton, Illinois

Nominating committee chosen

The Annual Meeting of Illinois Valley Electric Cooperative is set for Sept. 8, 1983, at 1:30 p.m. at the Bureau County Fairgrounds, and an election of officers will be a part of the business. A nominating committee has been chosen to nominate candidates for election to the board of directors. Their names and addresses are listed here so you can get in touch with them

to let them know your views.

They are:

Glen Selvig,
RFD 2, Ottawa 61355

Wayne Williams,
P.O. Box 2, Victoria 61485

James J. Reno,
P.O. Box 67E, McNabb 61335

Wilmer Sears,
RFD, Tiskilwa 61368

Bernard K. Martin,
RFD 1, Wyanet 61379

John Down,
RFD 1, Box 121, Cambridge
61239

Ronald L. Lindbom,
RFD 2, Kewanee 61443

Dana Mannon,
RFD 2, Neponset 61345

Ralph Weber,
RFD 1, LeMoille 61330

Outage: turn off those electric motors

When there is a likelihood of power outages because of the severe winter weather we sometimes have in this part of the nation, people are given a lot of advice on how to protect themselves and their equipment. They are advised to have an emergency source of heat, and adequate supply of food and water, and so forth.

Here's another bit of advice that could save grief and money: Turn off those electric motors!

Prior to, during and after a power outage, low voltage conditions sometimes occur in feeder lines. The excessive current resulting in low voltage will overheat motor windings and continued overheating will burn out the motor.

You will know you have low voltage if your lights are much dimmer than usual or if your television picture narrows.

It is true that many motors have internal protection devices, but some do not. So the best advice is to turn off all appliances and equipment that have electric motors until after the power comes back on.

By turning off electric motors you may also help restore power sooner. Many times when the power fault is corrected and an attempt is made to bring the power back on the line, it kicks out again and again because all those electric motorw which are not turned off in many homes and farms go on at once and the load is just too great. Protective overload line equipment kicks out and has to be reset.

The best advice then is to pull the plug or turn off those appliances which have electric motors until the power comes back on and is stabilized. Appliances with electric motors include refrigerators, freezers, humidifiers, dehumidifiers, air conditioners, dryers, washers, and furnaces.

Equipment that has electric motors include pumps, bunk feeders, silo-unloaders, milk coolers, crop driers, grinders and mixers.

If your power goes off

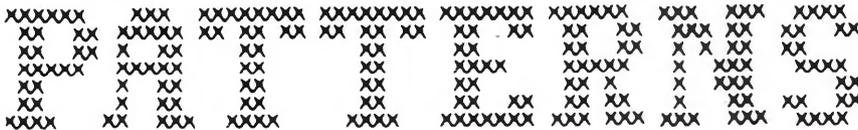
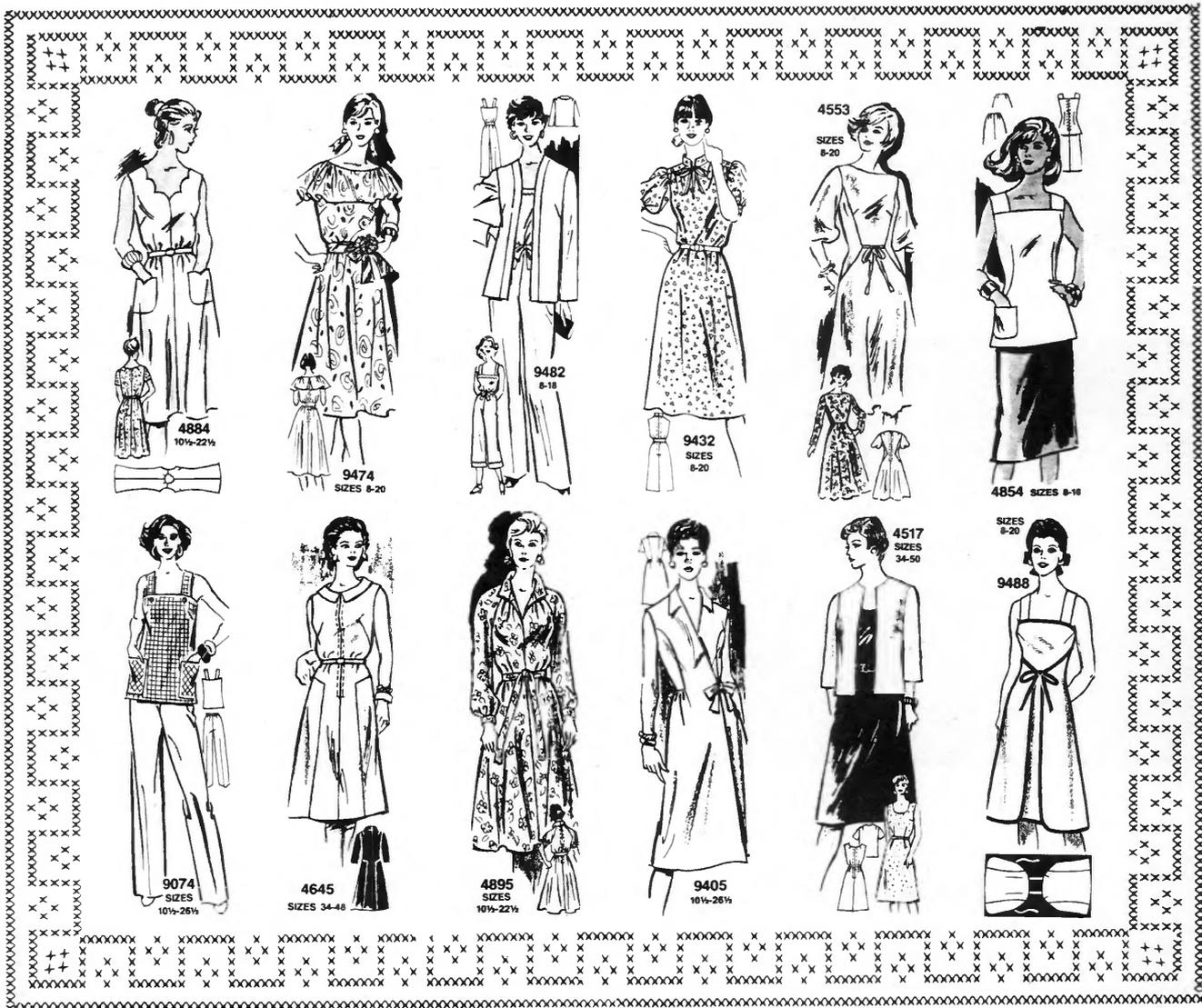
1. Check your main fuses or circuit breakers.
2. Check your meter pole. If you have breakers, make sure they are in the "on" position.
3. If you still have no power, check with your neighbors to see if they have power.
4. Call your cooperative if the source of the power outage cannot be found.
5. Please give the person who answers the phone the member's name as it is billed, and other information requested.
6. For all areas — Galva, Princeton and Ottawa — Call (815) 875-4488. There is always a cooperative representative on call — 24 hours a day.

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- No. 9474 is cut in sizes (6, 8, 10, 12), (14, 16, 18, 20). Order your regular size.
- No. 9482 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) ensemble takes 3-3/8 yards 60-inch fabric.
- No. 9432 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 3-1/8 yards 45-inch fabric.
- No. 4553 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 4-1/8 yards 45-inch fabric.
- No. 4854 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) takes 1½ yards 45-inch; shirt 1-3/8.
- No. 9074 is cut in sizes (10½, 12½, 14½), (16½, 18½, 20½), (22½, 24½, 26½). Order your regular size.
- No. 4645 is cut in Women's Sizes 34, 35, 38, 40, 42, 44, 46, 48. Yardages given in pattern.
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- No. 9405 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½, 24½, 26½. Size 14½ (bust 37) takes 2-7/8 yards 45-inch.
- No. 4517 is cut in sizes 34, 36, 38, 40, 42, 44, 46, 48, 50. See pattern for yardages.
- No. 9488 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 3-1/8 yards 45-inch fabric.

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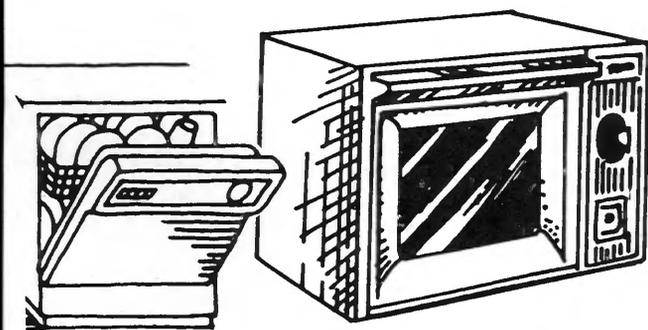
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_____	_____	_____	_____

Print Name _____

Address _____

City _____

State _____ Zip _____



energy
efficiency

hot summer months

- Check the temperature in your refrigerator, too. Place an outdoor thermometer in the fresh food section and leave it there for about 15 minutes. The temperature should be about 38-42 degrees F. If it is not, adjust the temperature control. Check the freezing compartment's temperature, too. It should be around 5 degrees F.

- Colder-than-necessary temperatures waste energy.

- Check the frost buildup on the freezer compartment. It should not exceed one-fourth of an inch. As a general rule, manual defrost refrigerators take less energy to operate than automatic defrost units, but not if frost is allowed to build up excessively.

Your refrigerator should be located away from sources of heat, such as ranges. The motor housing and con-

denser coil should be kept clean, and unless your refrigerator is designed to be built in, it should be away from the wall an inch or two to allow air to circulate around the compressor.

Once those things are taken care of, instruct your family on good habits in using the refrigerator. Let hot foods cool a bit before placing them in the refrigerator. Reduce the number of times the refrigerator is opened and never leave the door open longer than a few seconds. To thaw frozen foods, first place them in the fresh food section so that, as they thaw, they can help cool the refrigerator.

If you are planning to buy a new refrigerator, it is energy economical to buy one with a power-saver switch.

Some refrigerators have heating elements in their walls or doors to prevent "sweating" on the outside. In most climates, the heating element does not need to be working all the time. The power-saver switch turns off the heating element, saving up to 16 percent on refrigerator operating costs.

Weigh the benefits of a frost-free refrigerator against those requiring manual defrosting. Although you will need to defrost them regularly, the manual-defrost models will cost less to buy and operate than automatic defrost units.

If you choose the manual-defrost model, remember that frost buildup increases the amount of energy needed to keep your food cold.

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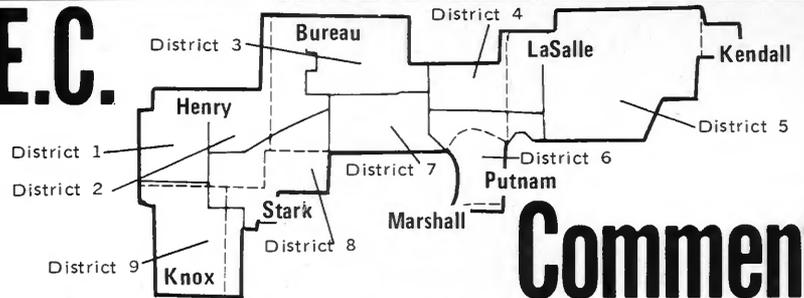
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Across the manager's desk

by Tim (Kris) Christensen
General Manager



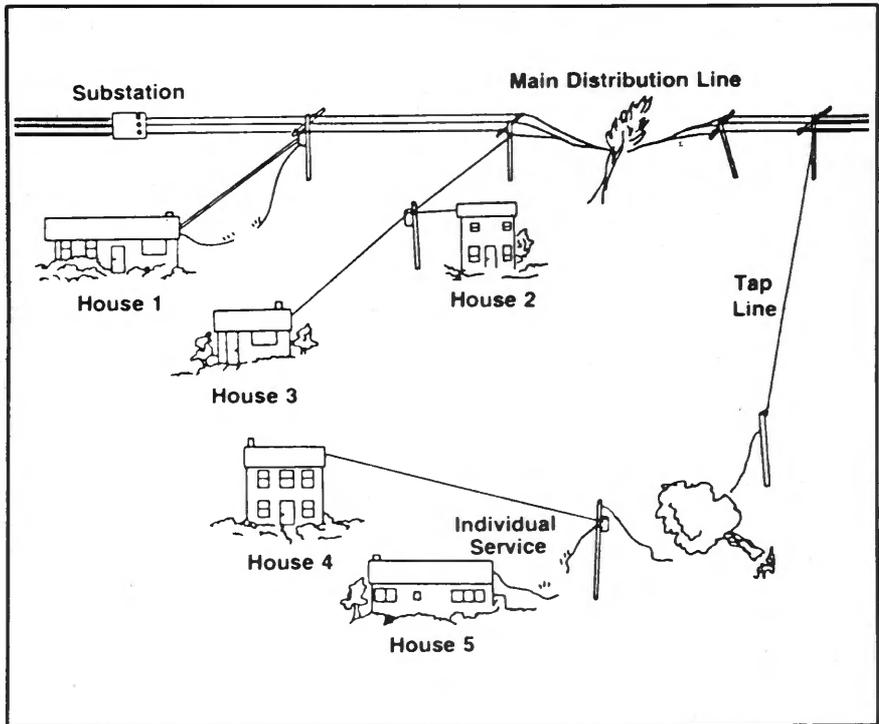
I.V.E.C.



Comments

Occasionally, we are asked how we would choose which house gets electric service restored during a major wind or ice storm. The chart below depicts a simplified version of how we would go about restoring service to each house. Specifically, we would start at the source of the power, namely the substation. Then similar to spokes on a wheel we would work out on the main distribution line, repairing and restoring service to the main feeder lines. It would do no good to repair a small wire attached to your house if the main line was dead, plus the time spent at this house would mean that many other people are off even longer.

In our diagram, the men would first work to restore the main distribution line. Since there is nothing wrong with the lines leading to House 2 and House 3, the repair to the main line would automatically bring them on. Next we would clear up any problems with the tap lines leading off the main line. In our example the tap line would restore service to House 4. Only after all the high voltage lines are repaired would we repair problems at individual



homes. In our example, individual House 1 and 5 would then be restored.

Occasionally, we have people call and say our men drove by but did not stop to repair a problem at their particular house. We hope this expla-

nation will help you understand our priorities. Although at times it may not seem like it, there is a predetermined plan to restore service to the largest number of people in the quickest time possible.

Why line is busy during outages

Occasionally, our members express concern about when they call to report a power outage and the line is busy. It is very frustrating to experience this, and thoughts run through your minds that the phone is off the hook or the line has somehow been placed in the busy signal position. After an hour of calling, your frustration level has increased and probably turned to anger. You are in need of help, you're calling to report a power outage and no one is helping you! Why?

Your call goes to one of three incoming phone lines. If a power line is out, the phone line may be busy as

everyone who is at home attempts to notify the cooperative. When a major line or substation that serves as many as 1,000 people is out, the problem is compounded and you will still receive a busy signal, more than likely, due to the volume of calls received.

Remember the busy signal the next time you and your neighbors are out of power. Don't give up calling. We want to hear from you. We have had instances where everyone on the line thought that their neighbor had called in and no one had.

Your cooperative apologizes for the inconvenience you may experience

from a power outage. We are at the other end of the phone doing everything possible to restore your power in the safest and quickest manner possible.

IVEC Members

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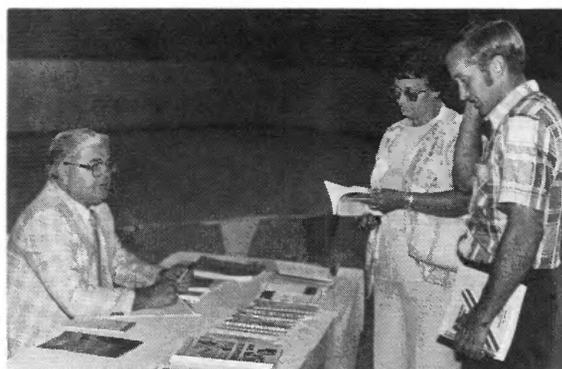
Organized: March 28, 1939, at Princeton, Illinois

ANNUAL MEETING

September 8th, 1983

Starts at 1:30 P.M.

**Bureau County Fairgrounds
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85 drawing prizes • Milk, coffee & donuts

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 Slide presentation**

Featuring:

- 1983-84 workplan construction
- Member service assistance
- Power facility hardware display
- Engineering & conservation assistance
- Soyland Power Cooperative report
- Association of Illinois Electric Cooperatives report



Looking over examples of proper wiring techniques for farm buildings are Doug Carolus, left, and Dick Hiatt. Carolus, an employee of Illinois Power Company, is chairman of the IFEC environmental control committee. Hiatt is on the staff of the Association of Illinois Electric Cooperatives.

Proper wiring a key to efficient electricity use in farm buildings

Each American farmer produces enough food for himself and about 80 other people, thanks in no small way to the efficient use of electricity. That efficiency includes proper wiring.

"Back before they had electricity on farms," said Roland Espenscheid, a University of Illinois agriculture engineering professor, "farmers tipped a bushel basket of corn over the fence to feed their hogs and carried feed to cattle in buckets. Operating that way, each farmer could produce enough to feed himself and about 10 other people." Espenscheid was speaking in June to those attending a special seminar on agriculture building wiring at Lincoln Land Community College in Springfield.

While electricity has brought increased productivity to agriculture, farm wiring presents many problems that are alien to residential or light commercial structures, Espenscheid added. The workshop, sponsored by

the Illinois Farm Electrification Council, was designed to acquaint power use-member service advisers with the problem and possible solutions.

The main thrust of the seminar dealt with wiring in "hostile environments," especially in the ammonia-laden and highly corrosive atmosphere in livestock confinement buildings.

"A carefully installed system of metal conduits and junction boxes that might well last the life of a farm shop or equipment shed would do well to last five years in a hog confinement building," noted Duane Crisp, manager of engineering for Chore-Time Equipment Company, a manufacturer of livestock feeding machinery and life-support equipment for confinement buildings. "We favor plastic in the livestock environment," he continued, "while metal may be just fine for shops or grain handling equipment."

Speakers generally noted that a lack of awareness has been a big part of the

problem. Since confinement livestock production grew so quickly, many buildings are relatively new. Corrosion is just now reaching really serious proportions.

Manufacturers have been quick to respond to the need for corrosion-resistant hardware, and part of the seminar was given over to demonstrations and exhibits of plastic fixtures and heavily plated metal hardware, much of which have come on the market recently, while some have been "borrowed" from marine or other heavy-duty product lines.

Don Davis, personal line loss control coordinator for Country Mutual Insurance Companies, discussed wiring from an insurer's viewpoint.

"There are some really bad wiring situations on Illinois farms," he said, "and many of them are because farmers did their own wiring and either didn't know how to do it right or cut corners here and there. Many dangerous situations have cropped up

WHEN YOU NEED MORE SPACE

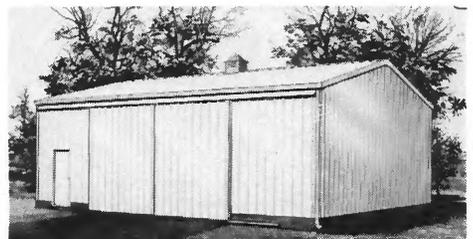


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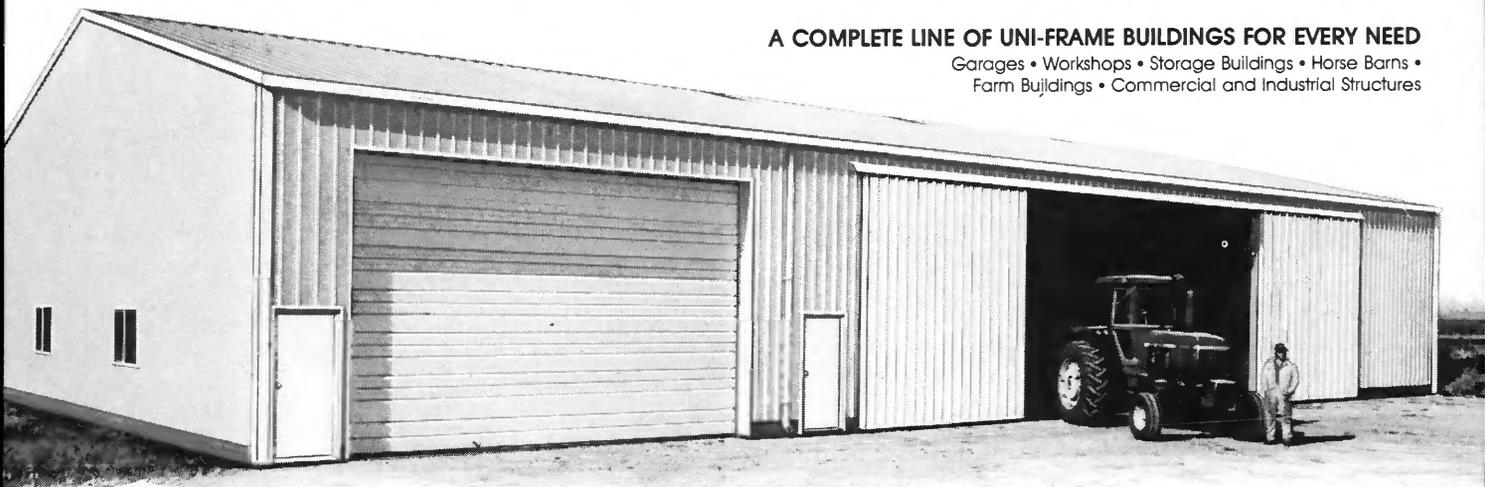
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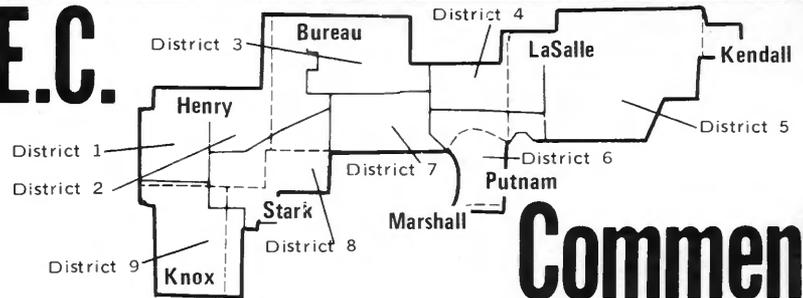
Bonanza Buildings, Box 9, Charleston, Illinois 61920

Across the manager's desk

by Tim (Kris) Christensen
General Manager



I.V.E.C.



Comment

We often hear the questions, "What is the facility charge on my bill this month?" Years ago, the facility charge would have been included in the first 40 kilowatt-hours which would have been the minimum. It has always been there, but it was "rolled into" the rest of the bill, instead of being itemized.

But what is a facility charge? First let us list some things it is not.

1. It is not a charge for reading your meter.
2. It is not a charge for doing some work at your premises.
3. It is not a new charge, but the way it is shown on the bill has been changed.

The Random House Dictionary of the English Language — The Unabridged Edition defines facility: "... something designed, built, installed, etc., to serve a specific function affording a convenience or service." Charge is defined: "(1) to impose or ask as a price, (2) to require payment' to charge for a service, (3) a fee or

price charged." Applying these definitions we have some insight to what "facility charge" is.

1. It is a charge assessed to recover the cost of the poles, wire, transformers, meters, and electrical hardware needed to make electricity available to each member. Funds, which must be repaid with interest, have been borrowed from the Rural Electrification Administration of the Department of Agriculture and the National Rural Utilities Cooperative Finance Corporation. These funds have been used to buy poles, wire, transformers, meters and electrical hardware to build the lines to your house, farm, or business.

When rate schedules are established, one school of thought is to assess a higher rate for the first kilowatt-hours to recover a portion of the costs of the poles, wire, etc. The rest of the rate is assessed to cover the cost of power and other operating costs. In the last 10 years this method of developing rates has been altered by assessing a

facility charge, without any kilowatt-hour allowance, to provide for the cost of the physical facilities. This approach lets the charge per kilowatt-hour remain lower. The charges for energy and the wholesale power cost adjustment, then, provide funds to pay the power bill and operating costs.

2. The facility charge is the amount that would be charged if no electricity was used during the month. It is the minimum charge for having electricity available.

3. The facility charge appears on your electric bill each month as part of the charge for electric service.

Meters rarely make mistakes

Many members believe their meter is recording too much usage when they have a high electric bill. This is like blaming the cash register at the grocery store for a high grocery bill or the meter on a gasoline pump for poor gas mileage.

Your meter is a highly calibrated and accurate device. In fact, few commodities are as accurately measured as electricity. In the many routine and requested meter tests conducted by Illinois Valley Electric Cooperative, it is rare to find a meter that is outside the established tolerance level. *And the majority of meters that are outside of operating standards run slow.* In other words, the meter isn't recording enough usage. That's because it is like any other electric motor; it gets slower with time as dirt, moisture and insects

take their toll.

IVEC maintains a regular schedule of testing to help keep each member's meter clean and in good working order.

If a member requests a test and the meter is found to be operating accurately, the cooperative will assess a \$45 service charge to help cover the cost of the test. If a member's meter is found to be outside the tolerance level, there is no service charge and an adjustment will be made to the member's account. But, due to the proven accuracy of meters, the cooperative advises members to take a close look at their usage before they request a meter test. If you want more information on testing procedures, contact IVEC.

If your power goes off

1. Check your main fuses or circuit breakers.
2. Check your meter pole. If you have breakers, make sure they are in the "on" position.
3. If you still have no power, check with your neighbors to see if they have power.
4. Call your cooperative if the source of the power outage cannot be found.
5. Please give the person who answers the phone the member's name as it is billed, and other information requested.
6. For all areas — Galva, Princeton and Ottawa — Call (815) 875-4488. There is always a cooperative representative on call — 24 hours a day.

IVEC Members

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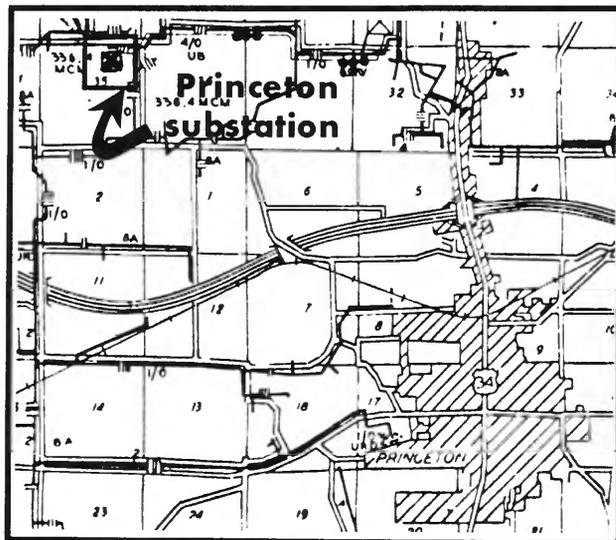
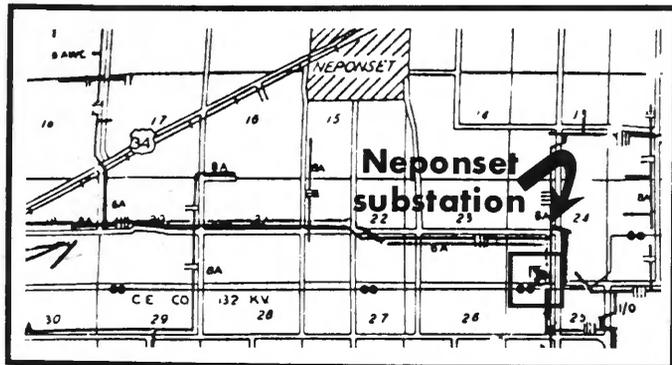
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Organized: March 28, 1939, at Princeton, Illinois



Princeton and Neponset substations to provide adequate and reliable service

During the month of September, work will begin on the new stations designated Neponset and Princeton. The Neponset substation will have a rated capacity of 5,000 KVA and Princeton is classified as 3,750 KVA. Both of these distribution substations, which will require 69 KVA transmission lines, are needed to adequately meet load requirements in their respective service areas. The Princeton sta-

tion will serve approximately 300 member-consumers and Neponset will provide power to 500 members located in parts of Bureau and Stark counties.

Among other projects to be started are nine miles of overhead three-phase line construction and the installation of one and one-half miles of underground distribution facilities.

These new projects will relieve over-

loading of feeder lines, existing substations, and reduce potential low voltage problems and power outages.

The work plan provides for area members to be closer to their main power source and not be susceptible to line outages as in the past.

Meeting service requirements is a challenge that your cooperative will always address.

Do you understand your electric bill?

People in general look upon bill paying with despair. Perhaps this is due to the fact that bills have an old habit of arriving and piling up each month. Billing may be looked upon as a charge for many services taken advantage of and enjoyed over a 30-day period occurring several weeks prior to the date your bill is due.

And think of it this way — if there were no electric bills to pay, what would living and working conditions be like?

Every now and then we hear this question: "Why is my bill higher than my neighbor's who lives across the road and has the same appliances that I do?"

There are many reasons why one

family may use more electricity than another using the same appliances. One housewife may open her refrigerator door twice as often as another. Each time the door opens, cold air rushes out and the unit must run more to replace it.

The amount of food stored in a freezer may cause a variation. An empty freezer runs more than a full one. Freezing food requires more electricity than storing food. Electric ranges consume electricity according to the number and types of meals prepared.

No two families have the same amount of washing and no two women wash in the same way. One may iron one day a week while the other irons a

few pieces each day. Each time the iron cools and is reheated, it uses additional electricity.

One family may think 60- or 75-watt bulbs are sufficient, while the other uses 100- to 150-watt bulbs in every socket. While one family retires at 9 o'clock and another watches TV until 11 o'clock, there can be no comparison of the consumption of electricity.

Finally, one family may have adequate wiring and the other poor wiring. Voltage drop in poor wiring reduces efficiency and wastes electricity. Won't you agree that no two families live alike or have the same habits so the amount of electricity used will vary with the family?

Tasty fare for a crisp autumn day

PORK CHOPS WITH MUSHROOM GRAVY

- | | |
|--|---------------------------------|
| 4 pork chops, 1-inch thick | 1/2 cup chicken broth |
| 2 tablespoons cooking oil | 2 tablespoons all-purpose flour |
| 1 cup sliced fresh mushrooms
(or drained canned ones) | or 1 tablespoon corn starch |
| 1/2 cup chopped onion | 1/4 teaspoon salt |
| 3/4 teaspoon Worcestershire sauce | 1/4 cup cold water |
| 1/2 teaspoon dried tarragon, crushed | 1 tablespoon snipped chives |
| Salt and pepper | |

In 12-inch skillet, brown chops on one side in hot oil. Turn; add mushrooms, and onion and brown on other side. Season with salt and pepper. Add chicken broth, Worcestershire sauce, tarragon, and the 1/4 teaspoon salt. Cover and simmer 35 to 40 minutes. Remove chops to serving platter. Keep warm. Spoon fat from juices. Measure vegetable juice mixture, reserving 1/4 cups. Combine cold water and flour. Stir into juices in skillet; add chives. Cook and stir until thick and bubbly. Cook 2 minutes more. Spoon over chops. Garnish platter with cherry tomatoes. Makes 4 servings.

CHICKEN RAVIOLI

- | | |
|-------------------------------|-------------------------------------|
| 1 pkg. noodles | 1 medium onion, chopped |
| 3 cans cream of mushroom soup | 2 tablespoons chicken fat (or oleo) |
| 1 hen or 2 fryers | 1/2 lb. grated cheese |
| 1 green pepper, chopped | 1 small can pimento |

Cook hen, remove meat from bone and cut into bite size pieces. Sauté onion and pimento in chicken fat. Cook noodles in chicken broth, add a little water if needed. Combine all ingredients, place in large casserole and cover with grated cheese. Bake at 400 degrees until mixture is hot through and cheese is melted.

RED HOT SQUASH CASSEROLE

- | | |
|-------------------------------------|--|
| 6 to 8 medium yellow squash, sliced | 1/4 lb. Velveeta cheese |
| 1 large onion, chopped | 2 tablespoons milk |
| 1 teaspoon salt | 1 or 2 Jalapeno peppers, seeded and minced |
| 1 teaspoon sugar | |
| Paprika | |

Boil squash and onion in water with salt and sugar until done. Drain well in a colander and pour into a 1-quart casserole dish. Make a sauce of cheese and milk; pour over squash; add peppers; mix well. Garnish with paprika. Heat in 350-degree oven uncovered for 20 to 30 minutes, or until thoroughly hot.

CHEESE-STUFFED PEPPERS

- | | |
|--|----------------------------------|
| 1 pkg. (3 oz.) cream cheese (softened) | 1/4 cup shredded carrot |
| 2 tablespoons oleo (softened) | 1 medium green pepper |
| 1/2 cup shredded cheddar cheese | 4 large slices rye bread, halved |
| 1/4 cup diced celery | |

In small bowl, cream cheese with oleo until blended. Stir in cheddar, celery and carrots; mix well. Cut stem end from pepper; remove seeds. Pack with cheese mixture. Chill overnight. Slice thin and arrange on bread halves. Cut each half in two. Makes 16 pieces.

TOMATO RELISH

- | | |
|---|-----------------------------|
| 20 cups ripe tomatoes, peeled and cored | 1/2 cup hot peppers chopped |
| 8 onions chopped | 3 cups sugar |
| 8 bell peppers chopped | 3 cups vinegar |
| 6 tablespoons salt | 1/2 box pickling spices |

Chop, mix and cook slow after reaching boiling point, for two hours. Stir often, place in jars and seal.

CHICKEN LIVERS PEKING

- | | |
|--|---------------------------------------|
| 1 lb. chicken livers, cut up | 1/2 cup chicken broth |
| 2 tablespoons oleo | 2 tablespoons soy sauce |
| 2 tablespoons chopped onion | 1 tablespoon cornstarch |
| 1 (3 oz.) can sliced mushrooms | 1/4 teaspoon ground ginger (optional) |
| 2 (10 oz.) pkgs. frozen Chinese vegetables with seasoned sauce | |

In large skillet, cook livers in oleo till just brown; remove from pan. In same skillet, cook onions until tender. Add Chinese vegetables with sauce, undrained mushrooms, and 1/4 cup of broth. Cover and simmer until vegetables are thawed, about 3 minutes. Stir to break up sauce cubes. Simmer, covered about 5 minutes or till tender. Stir together remaining broth, soy, cornstarch and ginger. Add to vegetables, cook and stir until bubbly. Add livers; heat through. Serve over hot cooked rice. Makes 6 servings.

SWEET POTATO PIE

- | | |
|--|-----------------------|
| 2 1/2 cups cooked mashed sweet potatoes | 1 teaspoon vanilla |
| 4 eggs slightly beaten | Dash of salt |
| 2 1/2 cups sugar | 1 can Dime Brand milk |
| 1 teaspoon nutmeg (optional or other spices if you wish) | 1 stick oleo, melted |

Mix and pour into unbaked pie shell. Bake at 350 degrees until filling sets. Chill and serve. May be frozen for later use if only baked half brown.

ORANGE SHERBERT

- | | |
|---|-------------------------|
| 64 oz. bottle orange drink | 2 cans Eagle Brand milk |
| 1 small can (8 1/2 oz.) crushed pineapple (drained) | 1/4 cup sugar |

Mix all the above ingredients together and pour into freezer and freeze.

COCONUT MOUNDS

- | | |
|---|---|
| 3/4 cup mashed potatoes, prepared from instant potatoes | 1 (12 oz.) pkg. semi-sweet chocolate pieces |
| 1 lb. confectioners sugar | 2 (1 oz.) squares semi-sweet chocoflate |
| 1 lb. pkg. unsweetened coconut | 1 oz. square paraffin wax |
| 1 teaspoon almond extract | |

Combine potatoes, sugar, coconut, almond extract in a large bowl. Mixture will be stiff and needs to be worked with hands. Form mixture into 3/4-inch balls and place on cookie sheet. Chill about 6 hours. Place chocolate pieces and squares and paraffin in top of double boiler over hot (not boiling) water stirring until melted. Remove from heat and with toothpick dip each ball in chocolate until coated. Place on cookie sheet and chill again until hard. Place or pack on or between wax paper and store in cool dry place. Makes 3 pounds.

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electricians borrow most of their funds for construction from a revolving fund in the federal Rural Electrification Administration. Legislation establishing this fund in 1973 fixes the interest rate for most loans at 5 percent, and permits 2 percent in some hardship cases. When the fund was created, its assets were commitments of rural electric and telephone co-ops to repay previous REA loans, and the agency's cash on hand.

Dollars to lend were obtained by pledging the fund's assets and borrowing from the U.S. Treasury at going market interest rates. As the cost of money escalated in recent years, while the agency's lending rates remained fixed, the dollars of interest income at 5 percent were significantly short of the interest expense, which sometimes climbed as high as 15 percent. The excess of outgo over income promised that in time the body of the fund would have been eaten away in payments to make up the difference.

After a two-year study, the rural electric cooperatives decided they would need to face up to higher interest payments in order to preserve their principal borrowing source, the revolving fund. They took the lead in developing legislation which authorizes the REA Administrator to adjust the interest on revolving fund loans whenever necessary to keep the fund stable.

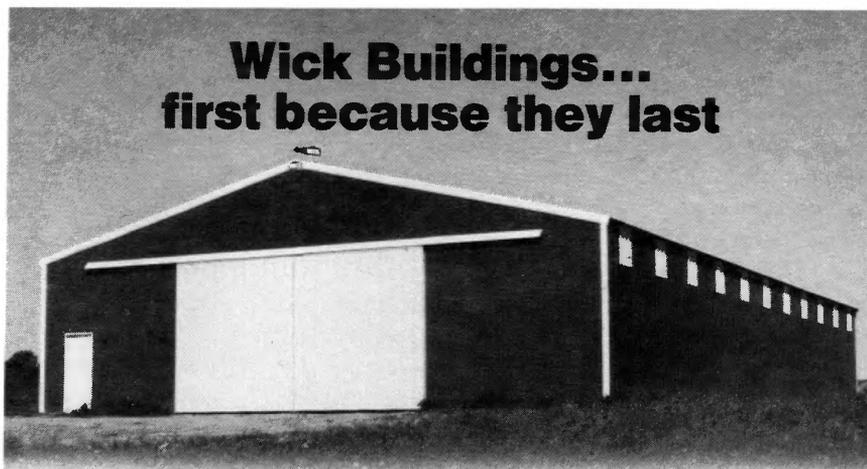
Companion measures were introduced in both houses of Congress: S.

Zorinsky said. "We have a well-thought-out plan that has been studied for almost two years. It asks for no quick-fixes or crash programs, but a simple, sensible solution to maintaining one of the most successful programs this government ever created."

The legislation also provides that the Treasury obligations now comprising the assets of the fund will be converted to permanent capital. This still requires that all rural electric loans must be fully repaid, plus interest, but

calls for such dollars to be held in the revolving fund rather than the Treasury and keeps them available for further lending.

The bills also would authorize future refinancing of revolving fund borrowings from the Treasury, and of a different type of loan used chiefly by the cooperative producing electricity for wholesaling to the distribution organizations. This would permit substantial interest savings at times when rates drop.



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IVEC Comments



by Tim (Kris)
Christensen
General Manager

Across the manager's desk



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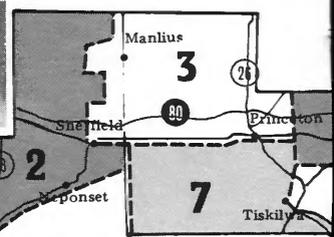


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Kewanee



District 9
Vincent Fredrickson
Vice President
Victoria

District 3
Marion Rieker
Sheffield



District 8
Willis Heaton
Bradford



District 7
Joe Danielson
Treasurer
Princeton

We've made some changes in the map of our area so you'll be able to tell more closely who represents you on the Illinois Valley Electric Cooperative Board of Directors. While all the board members are working on your behalf, your own representative is the one you need to talk to if you want to offer praise, file a complaint, make suggestions, ask for help or just learn more about your cooperative and how it works.

Keep in mind that board members pay the same electric rates you do. Being on the board does not entitle them to discounts or preferential treatment. Often, when you're out of power, so are they. When your rates increase, so do theirs. When winter heating takes a hefty bite out of your pocket, they get bitten, too.

They're all farmers, and farming is an energy-intensive business. You can be sure they'll do all they can to fight off any rate increases they can, because their bills increase far more for operating their milkers or grain dryers than for just heating their homes. They boost rates only after they're fully convinced that it's absolutely necessary to keep IVEC in a sound financial position, so it can go on giving you good, reliable service.

If you study the map on our "banner" carefully, you will probably be able to decide fairly easily who is your representative on the board. If you have any doubt, call the one you think is your board member. If he can't help you, he'll know who can.

But as much as they'd like to, they won't be able to lower your rates — at least not in the foreseeable future.

Meter readers coming

A new program that will be implemented in the near future by your cooperative will be the use of meter readers. The following article will attempt to deal with any concerns and/or questions which many members might have. While it is realized the difficulty to believe that savings will be greater than expense, the meter reading program in effect creates savings to all members. On the other side of the coin, it will enable your cooperative to use computer technology to ultimately benefit everyone.

During the course of a year, your cooperative, by using meter readers, will be able to move the collection for energy consumption closer to its time of use by shortening the interval by 30 days. Since our average wholesale power purchased each month in 1983 is expected to be approximately \$200,000, and by using 11 percent as the value of money for 30 days each month, this savings will amount to about \$22,000 per year.

Any savings that your cooperative can initiate in reducing the expense of operations has a direct effect on the cost of electricity to all consumers.

The second important reason for this new program relates to line loss. Line loss is the difference between the power the cooperative purchases and sells. This loss is experienced by all power suppliers and normally ranges from 8 to 12 percent. Expensive special equipment is used to assist in keeping line loss to a minimum.

Meters that fail to function will be detected substantially earlier than those under the existing program and an inspection will be made at least every 30 days. Metering equipment and seals in place will be observed 12 times annually. Also, line loss can more nearly correlate to substation metering dates by having all the meters read within a concentrated three-day period.

It should be remembered that any condition which prevents the cooperative from collecting payment for electricity that passes through the power system is considered line loss. Obviously, any action to prevent this loss will benefit members.

Under a meter reading program, we believe that reduction of line loss by one-half of a percentage point or more could be possible. This factor alone could generate savings and cause the system to operate more efficiently.

The new program deals squarely with disconnection of services for non-payment. This action can be taken at least 30 days earlier than can be done currently. Your cooperative will save the loss incurred during those 30 days and will, in effect, reduce the delinquencies that become uncollectible. Again, this is a direct savings to each cooperative member. IVEC will be keeping all of its members up to date through the REN publication as more details of this new meter reading program are made available.

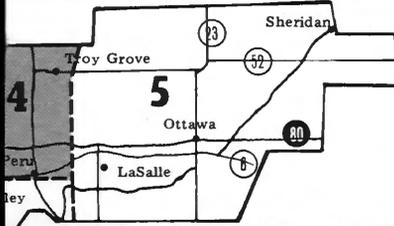
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District 5
Albert Hagenbuch
President
Utica

Annual meeting report

Marion Rieker elected to board

Two area men were reelected to the board of directors of the Illinois Valley Electric Cooperative and a third was elected to his first term during your cooperative's 44th annual meeting Sept. 8 at the Bureau County Fairgrounds in Princeton.

Reelected were Robert Sondgeroth of Mendota and Vincent Fredrickson of Victoria. Marion G. Rieker of Sheffield replaces Thomas P. Cole, also of Sheffield, who did not seek reelection.

Albert Hagenbuch of Utica, president of the cooperative, told some 200 persons attending the meeting that the board had found it necessary to increase rates in 1982 so the member-owned utility could meet financial requirements specified in mortgage agreements with the Rural Electrification Administration (REA), the coop-

erative's principal creditor.

"The increase was necessary for IVEC to develop enough margin to meet a large payment to REA in 1985," the president said, adding, "The reason for this obligation was an agreement made with REA in 1981 specifying that the cooperative would not pay interest or principal on old mortgage notes for five years, but that both interest and principal would come due in 1985."

Hagenbuch also introduced T. L. "Kris" Christensen, the new general manager the board hired to replace Thomas R. McDonald, who retired last December.

In a slide presentation prepared for the meeting, Christensen told his audience that costs have been high during the past few years because the cooperative board had, in the past

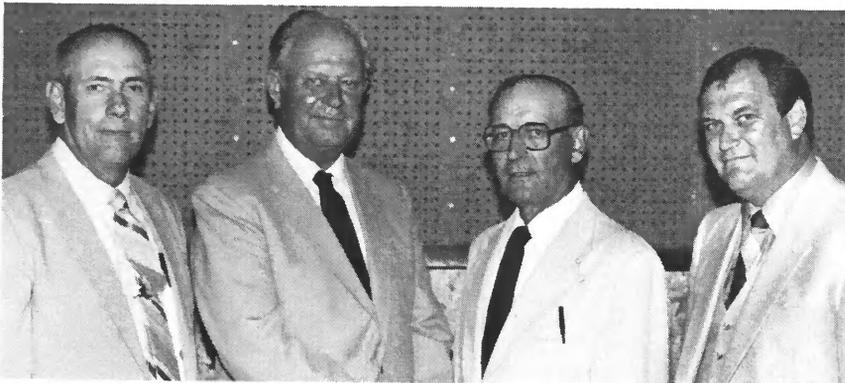
years, been under heavy member pressure to keep rates as low as the neighboring investor-owned utilities, and had deferred badly needed maintenance for years to do so.

"The main point," he emphasized, "is that your employees at IVEC have continued to implement a heavy system improvement program designed to ensure future dependable electric service to meet growing demands.

"You've virtually rebuilt your system from the ground up at today's prices," he noted.

Christensen's presentation pointed out that it costs about the same amount to build a mile of line for cooperatives, municipal utilities or investor-owned utilities (IOU's), but that the revenues derived vary considerably, largely because municipals, such as Princeton, and IOU's such as Illinois Power, both have many more customers per mile of line than cooperatives.

After the business meeting the board met to reorganize and reelected Hagenbuch as president, Fredrickson vice president, Eugene Kunkel secretary, and elected Joe Danielson treasurer.



The three men elected to the IVEC board are pictured above with Manager T. L. "Kris" Christensen, right, after the election. From left are Robert Sondgeroth of Mendota, Vincent Fredrickson of Victoria and Marion Rieker of Sheffield. Fredrickson and Sondgeroth were reelected, while Rieker replaces Thomas P. Cole, who did not seek reelection.

IVEC Members

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ENCHILADA CASSEROLE

- 1 1/2 lbs. ground beef
- 1 onion (1 use dried onion)
- 1 can mushroom soup
- 1 can cream of chicken soup
- 9 oz. taco sauce (mild)
- 12 soft corn tortillas
- 1 lb. grated Cheddar cheese
- Salt and pepper to taste

Brown meat and onions. Drain off excess fat and add soups and taco sauce. Simmer a few minutes. Grease large pan and line with half of the tortillas. Layer cheese and meat and tortillas. Top with cheese and bake at 350 degrees. Serves 6-8.

PATIO FREEZE

- 1 cup sugar
- 1 No. 2 can crushed pineapple and juice
- 2 cups mashed bananas
- 2 tablespoons lemon juice
- Dash salt
- 2 cups orange juice

Combine all ingredients in blender and freeze in oblong pan, muffin cups or trays.

TOUCHDOWN CHILI DIP

- 1 onion, chopped
- 1 green pepper, chopped
- 2 tablespoons butter, melted
- 1 can chili without beans
- 1 can cream of mushroom soup
- 3/4 lb. cubed sharp Cheddar cheese
- Corn chips

Saute onion and green pepper in butter until onion is clear. Stir in chili and soup. Blend well. Add cheese, heat until partially melted. Pour into chafing dish; serve with corn chips. 12 servings.

COCKTAIL MEATBALLS

- 3 lbs. hamburger
- 3 eggs
- 1 1/2 teaspoons red pepper
- 1 tablespoon garlic powder
- 1/2 cup Worcestershire
- 1 long, narrow pkg. soda crackers
- 1 bottle Kraft hot barbeque sauce
- 1 bottle Kraft hickory smoke sauce

Beat eggs with mixer, add spices. Crush crackers with rolling pin and add to eggs and spices. Add hamburger and mix with hands until well blended. Shape into small balls. Brown in oil. Drain and freeze in tightly-covered container until ready to use. Pour both bottles of sauce over and heat in oven. Can be used immediately instead of freezing.

CHICKEN SAUSAGE GUMBO

- 2 chickens, skinned, cut-up
- 2 or 3 lbs. sausage
- 1 whole stalk celery
- 4 onions
- 1 bell pepper
- 1 cup flour
- 1 cup oil

Make a roux of flour and oil by putting in microwave 3 minutes or until it turns brown. Saute vegetables in roux 15 minutes. Put into pot with chicken and sausage. Add 1 quart water or more. Cook 1 1/2 to 2 hours, skimming off excess grease. Season with salt, pepper, red pepper and garlic before putting in pot. When chicken falls off bone, it's done. Serve over rice with garlic bread to 8.

LASAGNA

- 1 pkg. lasagna noodles
- Cheeses: mild Cheddar, sharp Cheddar, Parmesan, Mozzarella (1/2 to 3/4 lb. each)
- 2 jars Italian Ragu (mild) cooking sauce
- 1 large jar Italian sauce flavored with meat
- 1 chopped onion
- 1 lb. ground beef

Brown meat with chopped onion. Put garlic powder, salt and pepper on this while browning. Add sauces to mixture. Cook noodles. In large pan put a layer of sauce on bottom. Then layer with noodles and cheese, add 1/2 sauce and then repeat. Bake at 350 degrees for 30 to 45 minutes.

BUTTERMILK PECAN CHICKEN

- 2 fryers, cut up
- 1/2 cup margarine
- 1 cup buttermilk
- 1 egg, beaten
- 1 cup flour
- 1 cup ground pecans
- 1 tablespoon paprika
- 1 tablespoon salt
- 1/4 teaspoon pepper
- 1/4 cup sesame seeds
- 1/4 cup pecan halves (optional)

Melt margarine in large shallow pan. Mix buttermilk with egg in small bowl. Mix together flour, pecans, paprika, salt, pepper and sesame seeds in another. Dip chicken in buttermilk mixture, then in flour mixture. Place skin side down in melted margarine in pan; then turn to coat with margarine and leave skin side up. Place pecan halves on each piece if desired. Bake at 350 degrees for 1 1/4 hours, or until done and golden brown. Serves 8.

SPANISH CHICKEN

- 1 large pkg. taco-flavor Doritos
- 1 large boned chicken (chopped)
- 1 small onion
- 1 small can chopped chilies (opt.)
- 1 pkg. Cheddar cheese
- 1 can mushroom soup
- 1 can cream of chicken soup
- 1 can chicken broth
- 1 can Rotel tomatoes

Bring to a boil: soups, broth and tomatoes. Add onion, chicken and crumbled Doritos. Cover dish and bake 30 to 40 minutes at 350 degrees. Remove cover and top with grated sharp Cheddar cheese. Return to oven until cheese melts.

TUNA CASSEROLE

- 1 small pkg. shortcut elbow macaroni (8 oz.), cooked
- 1 small can tuna
- 1 can cream of mushroom soup
- 1/2 can milk (use soup can)
- 1/2 med. onion (grated)
- Garlic powder, if desired
- 1/2 bell pepper, grated
- 3 or 4 green onions, chopped fine
- Grated cheese (quite a bit)
- Salt to taste
- Pepper to taste (you may use red)

Cook macaroni as directed on package. Toss together all other ingredients while macaroni is cooking. (Leave cheese until last.) Add macaroni to mixture and top with grated cheese. Bake in oven at 350 degrees for 30 minutes.

STEAK MARINATE

- 1 tablespoon garlic salt
- 2 tablespoons celery salt
- 1 tablespoon dry mustard
- 1 dehydrated horse radish
- 1 tablespoon onion salt
- 2 tablespoons Accent or M.S.G.
- 1 tablespoon black pepper
- 1/2 cup vinegar
- 1 cup salad oil

Combine ingredients.

CABBAGE CASSEROLE

- 1 med. cabbage
- 1 lb. ground lean meat
- 1/4 cup green onions (chopped)
- 1 med. onion (chopped)
- 2 cloves garlic (minced)
- 1 10 1/2-oz. can mushroom soup
- 1 cup boiled rice
- 1/2 cup bread crumbs
- 1/2 stick butter or margarine salt and pepper to taste

Cut cabbage as you would to smother and boil in salted water until tender, but still green. Drain and reserve the liquid. Melt the butter in a deep skillet and fry meat with onion, garlic and seasonings until brown. Mix cabbage with meat. Add green onion, mushroom soup and boiled rice. Pour into greased flat pyrex dish. Top with bread crumbs and bake 20 to 30 minutes at 300 degrees. (Before baking if mixture appears dry add some of the water reserved from boiled cabbage.) Yield: 6-8 servings.

PENNSYLVANIA DUTCH PIE CRUST

- 3 cups flour
- 1 teaspoon salt
- 1 1/4 cups shortening
- 5 tablespoons water
- 1 egg
- 1 teaspoon vinegar

Sift flour and salt; cut in shortening until mixture resembles coarse cornmeal. Beat water, egg and vinegar together; stir in flour mixture. Shape into ball. Chill. Turn out on floured board, roll to fit pie pan. Bake for 10 to 12 minutes in 425 degree oven. Yield: pastry for two 2-crust pies.

DIXIE FUDGE CHESS PIE

- 1 1/2 cups sugar
- 1 stick butter
- 3 eggs (slightly beaten)
- 4 tablespoons cocoa
- 1 teaspoon vanilla
- pinch of salt

Mix sugar and butter. Add other ingredients. Pour in uncooked pie shell. Bake at 425 degrees for 10 minutes. Turn down to 350 degrees for 30 minutes.

VEGETABLE PIE

- 1 pie shell
- 2-3 small squash
- 1 bell pepper
- 1 med. onion
- fresh mushrooms—as desired
- 1 sliced tomato
- 1 cup mayonnaise
- 1 cup mozzarella cheese

Chop or slice squash, pepper, onion and mushrooms. Saute in butter and drain. Set mixture aside. Combine mayonnaise and mozzarella cheese together. Line pie shell with tomatoes; top with vegetables; then top with mayonnaise and cheese mixture. Bake at 350 degrees for one hour or until brown.

STIR-'N-DROP OATMEAL COOKIES

- 1 cup flour
- 1 teaspoon baking powder
- 1/2 teaspoon salt
- 1/2 teaspoon cinnamon
- 1/2 teaspoon ginger
- 1 cup brown sugar, packed
- 1 cup rolled oats
- 1/2 cup vegetable oil
- 2 tablespoons milk
- 1 egg
- 3/4 cup chopped walnuts

Pre-heat oven to 375 degrees. Lightly grease baking sheet. Mix first 5 ingredients together. Add brown sugar and oats. Mix well. Combine vegetable oil, milk and egg together and add to mixture. Stir in walnuts and drop dough by rounded teaspoons about 2 inches apart on baking sheet. Bake about 10 minutes. Cool on wire rack. Yield: 3 dozen.

GRAHAM CRACKER COOKIES

- FILLING:
 - 2 sticks oleo
 - 1 1/4 cups sugar
 - 1 egg
 - 1/2 cup Carnation milk
- ICING:
 - 1 1/2 sticks oleo
 - 1 box powdered sugar
 - 1 cup nuts
 - 1 1/2 cups coconut
 - 2 cups crushed graham crackers

Take a large cookie sheet and place graham crackers on it all going same way. Then prepare filling. Melt oleo and add sugar, egg and milk. Bring to a boil, take off heat and add coconut, nuts and crushed graham cracker crumbs. Mix all together and spread on crackers on cookie sheet, then add another layer of graham crackers (same way as first). For icing, mix together ingredients and spread on top of crackers, cover and refrigerate for several hours. Then cut into squares.

YUMMY CHOCOLATE SHEET CAKE

- 1 stick margarine
- 1/2 cup oil
- 1 cup water
- 2 cups flour (self-rising)
- 2 cups sugar
- 1 teaspoon cinnamon
- 4 tablespoons cocoa
- 2 eggs
- 1/2 cup butter
- 1 teaspoon vanilla

Melt margarine, oil and water. Bring to a boil. Add flour, sugar, cinnamon and cocoa. Mix well then add remaining ingredients. Stir and pour into pan. Bake at 400 degrees for 20 minutes.

ICING

- 1/2 stick margarine
- 1/4 cup water
- 1 lb. box powdered sugar
- 4 tablespoons cocoa
- 1 cup nuts

Melt margarine and water. Bring to a boil and add remaining ingredients. Spread on top of hot cake.

OATMEAL CAKE

- 1 1/2 cups hot water
- 1 cup minute oats
- 1 cup white sugar
- 1 cup brown sugar
- 1/2 cup shortening
- 2 eggs
- 1 1/2 cups flour
- 1 teaspoon soda
- 1 teaspoon cinnamon
- 1/2 teaspoon salt

Pour hot water over oats. Let stand. Cream sugar, brown sugar, shortening. Beat eggs into mixture. Sift flour with soda, cinnamon and salt. Add to cream mixture. Then add oats. Beat well. Bake at 350 degrees for 35 minutes.

Hot Line School

(Continued from page 5.)

Distance is safety."

Safety is always in mind at the school, and "one man's hard hat sported a sticker proclaiming, "If you love life, live safety." and Dave Deiderich and Jim Nevel of the AIEC Job Training and Safety Department made the rounds of the various work groups several times, making sure the

trainees did not pick up any unsafe habits.

While Diederich and Nevel were in overall charge of the school, several instructors from different cooperatives helped with hands-on work sessions, and Don Greene, job training and safety instructor from the Iowa Association of Electric Cooperatives, lent his expertise, too.

Cooperative instructors were: Al Becker and Delbert Boston, Rural Electric Convenience Cooperative Co., Auburn; Fred Boston, Western Illinois Power Cooperative, Jacksonville; Larry

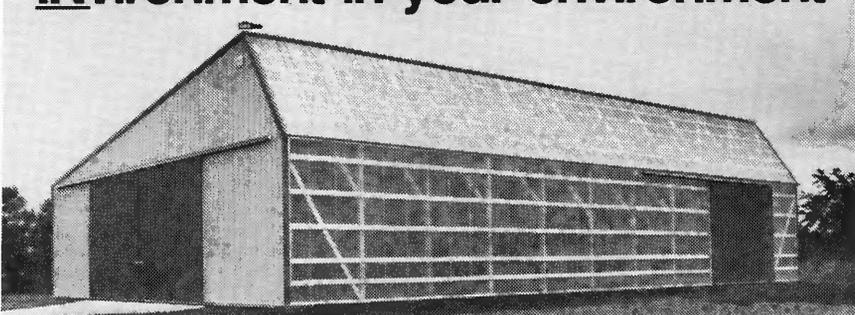
Carter, Illini Electric Cooperative, Champaign; Meredith Chrisman and Wendell Lettner, Coles-Moultrie Electric Cooperative, Mattoon; George Claus and Don Long, Illinois Rural Electric Co., Winchester; Daryl Douglas, Adams Electirical Co-Operative, Camp Point; Bruce Hill and Chuck West, Corn Belt Electric Cooperative, Bloomington; Richard Hillgoss, Lyle Kofoot and Larry Niccum, Eastern Illinois Power Cooperative, Paxton; and Gary Hissong, Southwestern Electric Cooperative, Greenville.



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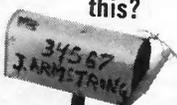


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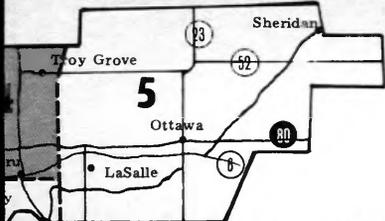
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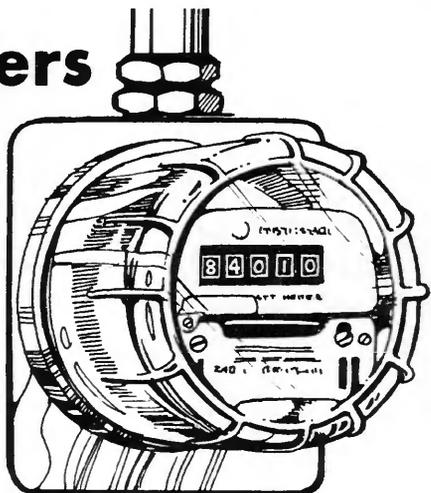


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Meter readers coming



The meter reading program at Illinois Valley Electric Cooperative is in the process of being developed and will be implemented in the near future. IVEC has 6,117 meters in service at the present time that will need to be read each month.

Preliminary studies indicate that 24 routes with an average of 254 meters will be required.

All meter readers will be members of the Cooperative. Applications are being accepted if a member is interested in the program. The position of "meter reader" will be a contractual agreement, with a set monthly fee and mileage paid by IVEC. The selected meter reader will be expected to have proof of insurance, and a sound,

reliable vehicle.

The meters will be read for each route and each seal checked within a three-day period, centering on the first of each month. Each meter reader will be trained and thoroughly briefed on the responsibilities and functions of the new program.

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- CAULKING COMPLETED ✓
- STORM WINDOWS UP ✓
- GLASS IN STORM DOOR ✓
- HEAVY DRAPES/ SHADES UP ✓
- FIREPLACE GLASSED/ CHIMNEY CLEANED ✓
- FURNACE FILTER CHANGED ✓
- DOORS, WINDOWS WEATHERSTRIPPED ✓

Old Jack Frost will be nipping at your nose pretty soon, and that can mean high energy bills unless you button up and get ready for winter weather.

A good first step is to complete the checklist above. A good second step is to call us. We have more energy saving tips for you this winter.

IVEC Members

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9237

SIZES 10½-22½



9498

S-8-10
M-12-14
L-16-18



4551
SIZES 8-20



9318
34-48



4613
SIZES 8-20



9408
SIZES 34-48



9289

SIZES 10½-18½



9350

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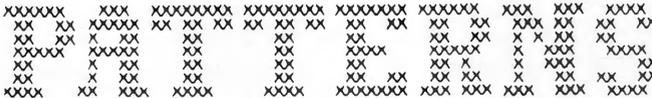
4830
SIZES 10½-26½



9087
10½, 22½



4723
SIZES 8-18



- No. 9237 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 2-3/8 yards 60-inch.
- No. 9498 is cut in Small (8-10); Medium (12-14); Large (16-18). Medium takes 1-1/8 yards 45-inch fabric.
- No. 4551 is cut in sizes 8, 10, 12, 14, 16, 18, 20. See pattern for yardages.
- No. 9318 is cut in Women's Sizes 34, 36, 38, 40, 42, 44, 46, 48. Yardages given in pattern.
- No. 4613 is cut in sizes 8, 10, 12, 14, 16, 18, 20. Size 12 (bust 34) takes 3-7/8 yards 45-inch fabric.
- No. 9408 is cut in Women's Sizes 34, 36, 38, 40, 42, 44, 46, 48. See pattern for yardages.
- No. 9289 is cut in sizes 10½, 12½, 14½, 16½, 18½. Size 14½ (bust 37) takes 3-3/4 yards 45-inch fabric.
- No. 9350 is cut in Child's Sizes (2, 4, 6, 8) are all included in pattern.
- No. 9098 is cut in sizes (6, 8, 10, 12), (14, 16, 18, 20). Order your regular size.
- No. 4830 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½, 24½, 26½. Size 14½ (bust 37) vest 1¼ yards 60-inch; blouse 1½; pants 1-3/8.
- No. 9087 is cut in sizes 10½, 12½, 14½, 16½, 18½, 20½, 22½. Size 14½ (bust 37) takes 3-3/8 yards 45-inch.
- 4723 is cut in sizes 8, 10, 12, 14, 16, 18. Size 12 (bust 34) jumper takes 1-7/8 yards 60"; blouse 1-3/8 yards.

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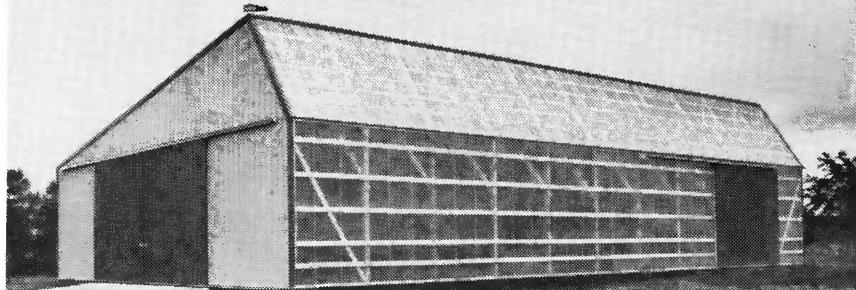
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IVEC Comments



by Tim (Kris)
Christensen
General Manager

Across the manager's desk

Planned usage can save money

Electricity is the most convenient form of energy there is, and does so much for us that sometimes we do not give it a thought until we receive the bill for what we used during the past month.

There are occasions when the bill arrives that there is also surprise at the usage increase. The first thought that comes to mind is that the meter has malfunctioned or the office has miscalculated the bill. Misfiguring of your bill is rare and a defective meter is even more rare. The electric meter is a very accurate measuring device. The meter is very seldom found to be out of calibration beyond the limits, but when it is, most of the time it is found to be slow. The reason for this is, because with time, dirt, moisture and other foreign matter will collect and slow the gears down; but we are only talking of two to five kilowatt-hours to the 1,000 kilowatt-hours on the average.

The main reason found for increase in electrical usage is due to the ease of using electricity without realizing it is being metered and adding to the total monthly consumption. Electricity is one of the few items that is used before you pay for it. This is why you should be aware of what you are using, how much power different items consume and the length of time used. One way to help gain this knowledge is to read your meter every day or once a week. Doing so will help you realize how laundry day, running the air conditioner or other changes around



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Kewanee



District 9
Vincent Fredrickson
Vice President
Victoria

District 3
Marion Rieker
Sheffield



District 7
Joe Danielson
Treasurer
Princeton



District 8
Willis Heaton
Bradford

the home affect your bill.

The water heater is one of the largest users in most homes when it isn't working properly. Check to be sure both heating elements are working, that the temperature setting isn't too high, and that there are no leaks at the faucet or in the lines. Reduce the amount of hot water used by installing a shower control and flow restrictors. A shower control is nothing more than an inexpensive shut off valve that lets you run the water only while wetting down and rinsing off. Several gallons of water can be saved by using this device of which 40-50 percent could be hot water. With less water being used, the water pump time (if you have one) will also be reduced.

The water pump is another item that can increase your electrical consumption. If it is short cycling or running continuously, many wasted kilowatt-hours can be metered. Take time to listen to your pump. Reading the meter every day can also help you realize when something has malfunctioned and then it can be located and corrected before it continues any length of time.

Many of our members compare bills with their neighbors, but this cannot be accurately justifiable, even if everything is identical, the living habits of two households are never the same. The way a family lives and how the electrical equipment is used can create a sizable difference in the electrical consumption. The size of a home makes little difference except for heating and cooling. It is the equipment inside and how this equipment is used that makes up the total bill.

After-hours power failure

If you have a power outage after 4:30 p.m. weekdays, weekends or holidays, first check your fuses or breakers, including the main fuse or breaker under the meter.

After checking, if nothing is wrong call IVEC collect at the following number:

24-HOUR SERVICE
AC 815 875-4488
Answering service and
dispatcher on duty

FOR ENGINEERING OR MEMBER SERVICE ASSISTANCE

Members needing any assistance or engineering consultation should please contact IVEC's headquarters office located in Princeton, telephone 815 875-4488.

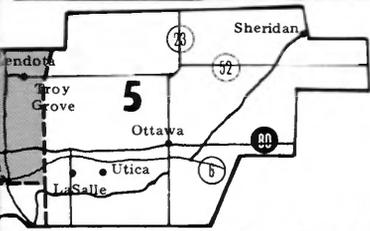
*Season's
Greetings*

IVEC Members

Is this your account number?

0002345500

If it is, please notify Illinois
Valley Electric Cooperative, (815)
875-4488, and we will present you
with a fine gift.



Illinois Valley Electric Cooperative

Office Hours 7:45 A.M. — 4:30 P.M.
Monday through Friday

Route 6 & 34 West
Princeton, Illinois 61356



District 6
Eugene Kunkel
Secretary
Granville



District 4
Robert Sondgeroth
Mendota



District 5
Albert Hagenbuch
President
Utica

In case of emergency, call (815) 875-4488 any time, day or night.
There is always someone on duty at this number — 24-hour service.

Serving the rural areas of Bureau, Henry, Kendall, Marshall, Knox, LaSalle, Putnam and Stark counties.



Creating a 'comfort center' in your home

There is a way to reduce the amount of heating energy you use and still stay warm. You can do it by creating a "comfort center" in an area of your home.

By closing off other rooms and by turning back your furnace thermostat, you can reduce your energy consumption dramatically. Then by adding an electric space heater to the "comfort center" you have selected, you can still be warm and comfortable — even in the coldest weather.

You will want as your "comfort center" a room or area of your house where most of your wintertime activities occur. Isolate that area from the rest of the house as much as possible. For any outside walls, seal out the cold by insulating, weatherstripping and caulking, if you haven't already done so.

Electric space heaters are attractive, convenient and safe. They allow you to heat only the area you have selected as your "comfort center," so there's no wasted energy. Of course, you will want to be sure you have chosen the right model for your particular needs.

Now is still a good time to consider creating a "comfort center" and purchasing an electric space heater.

Members should continue reading meters until new program begins

There have been inquiries as to when IVEC's new meter reading program will begin. As of now, members are still expected to read their own meters and record on billing cards that are sent back.

Members will be notified in advance as to when the new meter reading program will take effect.

Preliminary studies indicate that 24 routes with an average of 254 meters will be required.

All meter readers will be members of the Cooperative. Applications are being accepted if a member is interested in the program. The position of "meter reader" will be a contractual agreement, with a set monthly fee and mileage paid by IVEC. The selected meter reader will be expected to have

proof of insurance, and a sound, reliable vehicle.

The meters will be read for each route and each seal checked within a three-day period, centering on the first of each month. Each meter reader will be trained and thoroughly briefed on the responsibilities and functions of the new program.

A coupon is printed below.



TO: Illinois Valley Electric Cooperative, Inc.
P.O. Box 70
Princeton, Illinois 61356

I am interested in being an Illinois Valley Neighborhood Meter Reader. Please send me an application form. I am a member of Illinois Valley Electric Cooperative.

Name _____

Address _____

City _____ Zip _____

Telephone _____

Home energy help is available to eligible families through state-administered program

Illinois Home Energy Assistance Program (IHEAP) local administering agencies are now accepting applications for households of income-eligible families who believe they are eligible for assistance.

The Department of Commerce and Community Affairs is the state administering agency of IHEAP.

Illinois received from the U.S. Dept. of Health and Human Services a commitment of \$114 million for this program in fiscal year 1984. IHEAP provides grants to income-eligible renters and homeowners to pay heating and medically necessary cooling costs and to reconnect services lost. In 1982, 457,515 Illinois households received aid. Eligibility is based on the number of family members and their combined annual income.

"This program is not intended to pay all energy costs of the needy, but rather to reduce those costs by providing either a one-time grant to them or paying the utility vendor directly," Michael T. Woelffer, DCCA director, said.

Families who think they may be eligible for IHEAP assistance should

contact their local administering agency or call DCCA's toll-free energy hotline at 800-252-8643.

The following is a listing of agencies and telephone numbers in counties with electric service by electric cooperatives:

Bond, Clinton, Marion and Washington counties: BCMW Community Services, Inc., Centralia 618/532-7388

Knox County: Carver Community Action Agency, Galesburg 309/342-0158

Christian, Clay, Effingham, Fayette, Montgomery, Moultrie and Shelby counties: CEFS Economic Opportunity Corp., Effingham 217/347-5018

De Witt, Logan, Menard, Mason and Opportunity, Inc., Greenup 217/ nomic Development Corporation, Lincoln 217/732-2159

Macon County: Decatur/Macon County Opportunities Corporation, Decatur 217/428-2193

Clark, Coles, Crawford, Cumberland, Douglas, Edgar, Jasper, Lawrence and Richland counties: Embarras River Basin Agency for Economic Opportunity, Inc., Greenup, 217/923-5115

Fulton County: Fulton County Health Department, Canton 309/647-1173

Calhoun, Greene, Jersey and Macoupin counties: Illinois Valley Economic Development Corporation, Carlinville 217/854-9677

Madison County: residents should contact DCCA toll-free at 800-252-8643.

Livingston and McLean counties: Mid Central Economic Opportunity Corporation, Bloomington 309/829-0691

Morgan and Scott counties: MSC Community Services, Jacksonville 217/243-4711

Jo Daviess and Stephenson counties: Northwestern Illinois Community Action Agency, Freeport 815/232-3141

Peoria County: Peoria Citizens Committee for Economic Opportunity, Peoria 309/671-3900

Henry, Mercer and Rock Island counties: Project NOW Community Action Agency, Rock Island 309/793-6350

St. Clair County: St. Clair County Community Action Agency, East St. Louis, 618/874-0371

Sangamon and Cass counties: Sangamon County Community Devl., Springfield 217/789-6688

Alexander, Hardin, Johnson, Massac, Pope, Pulaski and Union counties: Shawnee Development Council, Inc., Karnak 618/634-2201

Bureau, Carroll, LaSalle, Lee, Marshall, Ogle, Putnam, Stark and White-side counties: Tri-County Opportunities Council, Rock Falls 815/625-7830

Tazewell and Woodford counties: Tri-County Regional Planning Commission, East Peoria 309/694-4391

Adams, Brown, Pike and Schuyler counties: Two Rivers Regional Council of Public Officials, Quincy 217/224-8171

Champaign County: Urban League of Champaign County, Champaign 217/356-1364

Ford, Iroquois and Vermilion counties: Vermilion County Citizens Action Committee for Economic Opportunity, Inc., Danville 217/443-2705

Franklin, Jefferson and Williamson counties: Volunteer Services, Marion 618/997-4371 Ext. 239 or 270

Edwards, Gallatin, Hamilton, Saline, Wabash, Wayne and White counties: Wabash Area Development, Inc., Mill Shoals 618/896-5375

Jackson, Monroe, Perry and Randolph counties: Western Egyptian Economic Opportunity Council, Steeleville 618/965-3458

Hancock, Henderson, McDonough and Warren counties: Western Illinois Regional Council, Macomb 309/837-3941

