Right of Way Crews Keep 1,250 Miles of Line Clear — By Hand

This time of year, people flock to Vermont to look at the trees. Our hardwood forests turn red and yellow as maples and birches put on their annual show. But Mike Myers, WEC’s Right of Way Management Coordinator, and the tree crews WEC subcontracts, spend every day and every season considering and evaluating the trees in the Coop’s service area. 22 years ago, when Myers joined the Coop team, the avid hiker was worried about one thing. “I was kind of worried when I started here, I wouldn’t get out in the woods!” he laughed.

That hasn’t turned out to be the case. “I do a lot of patrolling and visual inspection of our system,” he said, which in WEC’s rural territory, means a lot of time in the woods. With added input from line crews and outage reports, Myers uses this information to organize the tree crews that keep the lines free from hazards.

Simply put, tree crews work to reduce outages by controlling vegetation in the right of way. The Coop’s “right of way” is the area around a power line that must be kept clear of potential hazards. Around transmission lines, the right of way is generally 100 feet wide. “Those are like your arteries,” explained Myers. “If a transmission line goes down, a whole substation could go down,” which could knock out power for a couple of towns.

Three-phase feeder lines—picture the poles along a main road with three lines across the top—usually see a 50 foot right of way. Distribution lines— which might serve a residential road—see a 30 foot right of way. WEC’s rights of way are usually cleared by flat-cutting vegetation along the ground. This is usually what passersby notice in roadside work—visually, a flat cut stretch can be an abrupt contrast to a few years’ growth of brush, though crews are careful to leave low-growing useful trees, like apple and nut, intact. Along roads, crews use a bucket truck to clear encroaching limbs. The crews also remove weak and leaning trees outside the right of way that pose a threat to the lines.

A large percentage of WEC power lines run offroad, in challenging terrain. In these areas, where it’s impossible to drive a bucket truck, qualified climbers go up into the canopy using ropes and climbing equipment to bring down hazard-continued on page 4

Democracy in Your Light Bulb

When you picture a main street in a small American town, what do you see? A tree-shaded town green and playground, thriving locally owned businesses, neighbors visiting with each other at the market or general store? Or do you picture boarded up shops in foreclosed buildings? Vermont is known for rustic charm and farm industry—our tourism and food economies rely on them. But all rural communities have an economic incentive to embrace local ownership and governance. “If you compare Vermont’s rural economic landscape with communities that have relinquished local control, and now the only shops are big box discount stores that don’t pay a living wage, you see what happens. You lose your voice and any power to control the resources that dictate your life,” explained Jean Hamilton, WEC board member and a business consultant with a focus on food systems.

For large, profit-driven companies, there just isn’t much incentive to get goods and services out to rural people. In 1939, WEC was founded as a cooperative because shareholder-owned utilities saw no incentive to bring electricity to rural Vermont. And now, said WEC board president Barry Bernstein, high-speed Internet providers talk about bringing their service to rural-continued on page 8

Washington Electric Cooperative
East Montpelier, VT 05651

Inside

WEC wins state safety award: For the third time, the state recognized WEC’s culture of safety with its top award. More in General Manager’s report, p. 3.

Member writes: In with a personal experience of driving a Chevrolet Bolt, p. 6.

Grid cybersecurity: The first in a series on cybersecurity and the grid: how it works, myths, and realities. P. 5.

General Manager Patty Richards and Gabe Wendel, son of Finance Director Cheryl Willette, hang loose at WEC’s Employee Appreciation Day, October 7 at Mad River Glen. Read more in the President’s Message, p. 2.
Co-op Currents

Gratitude for Co-ops, Electric Power, Workers, and Community

By Barry Bernstein

What a beautiful late summer we’ve had! And how grateful I am to see the sun every morning, when so much elsewhere in the country and in the world is not so shiny. Our heartfelt compassion goes out to all those families affected by the recent Las Vegas tragedy, and to those affected by acts of hatred and violence on any day. Events like Las Vegas affect us all, across all political and other boundaries, and there’s only sadness for the victims and their families. Every day, but especially on the really bad news days, I am grateful to be part of a caring, tight-knit community here in central Vermont.

October is Co-op Month

October is Co-op Month, and it takes me back to my first co-op experience, when I was working and living in London, England, where co-ops began and are still very strong. However, my first real experience as a member-owner began in Vermont in 1971, when I was involved in starting the Plainfield Co-op, and became a member of WEC. Both co-ops have grown significantly since then. WEC has doubled in size to 11,000 households, operates our Wightsville hydro and Coventry methane generation plants, and supplies our members with 100% renewable energy. Several Plainfield Co-op neighborhoods have since established their own standalone stores. Buffalo Mountain in Hardwick now does $1 million in sales and Hunger Mountain in Montpelier has sales over $20 million, while the Plainfield Co-op is still going strong.

Potential 2018 Rate Increase

The WEC board and staff are now analyzing numbers as we build the 2018 budget. This past summer we were hit with several storm events that caused significant damage and expensive reconstruction. We hope the last three months of the year will be kinder to us! Patty Richards, our General Manager, mentions several other factors in her report (page 3) that impact rate increase pressures.

Valuing Electricity

It has been a tough fall for weather events—earthquakes, wildfires, and so many hurricanes. The electrical grids of Puerto Rico, the Virgin Islands and other Caribbean islands are especially vulnerable to hurricane damage because they are isolated. Here, our neighbors in New York or Canada could transmit us electricity if a weather event knocked out our power for an extended time. That’s not an option there.

It makes me think about how we’ve gotten so used to having reliable electricity, even though WEC has been delivering electric power for only 78 years. Just 20 years ago, many of us did not yet have cell phones—and years ago, if a weather event knocked out our power for an extended time. That’s not an option there.

Gratitude for Co-ops, Electric Power, Workers, and Community

I hope this is a message we can all take to heart—to value electricity for what it is, and to neither waste it nor take it for granted.

Winter Prep

As many of our members harvest the last of their gardens’ bountiful tomatoes, kale, and squash, our farmers are mowing and bailing their third cut of hay. It is also a time for moving and stacking wood into our sheds and basements, beginning our final outside preparations on our homes, putting away our lawn mowers, and catching the last of autumn’s colors. Remember, if you have any drafts that need to be sealed or cold weather appliances you need to purchase, take advantage of Button Up incentives. See the infographic on page 7 and contact Bill Powell at 802-223-5245 or energycoach@wec.coop.

At the same time, our line and right of way crews are tackling work on our distribution and transmission lines scheduled for the last quarter of 2017. Keeping vegetation away from the lines is essential for preventing outages, and the all-local right of way crews we hire are careful to preserve low-growing, wildlife-friendly trees while removing hazards—and they do it all without spraying dangerous chemicals on the land. Meanwhile, our top-quality line crew is making sure our poles and lines are shipsheap before the first winter storms hit. If you see them around, thank them for keeping your lights on.

Employee Appreciation Day

I was fortunate to join our employees and their families at the Mad River Glen Ski Area, a sister co-op, in early October. Some of us rode the single chair lift to the top and back, while a number of folks hiked up some of the more challenging trails and played games at the base lodge. We all had a great time, but appreciating our employees is really just not just a one day event. I applaud WEC staff year round for their dedication to the co-op and the excellent service they give our members, in both good and bad weather. On behalf of the WEC board and our members, THANK YOU!

Got something to say?
Letter to the editor, comment, or a story tip? Drop us a line at currents@wec.coop or Washington Electric Cooperative, Inc., P.O. Box 6, East Montpelier, VT 05651, Attn: Co-op Currents.
WEC’s Culture of Safety

Plus: line crew heading to St. Thomas for hurricane relief, rate design listening groups, and possible 2018 rate increase

By Patty Richards

WEC Wins State Safety Award

On October 13, we were excited and honored to receive the 2017 Governor’s Award for Outstanding Workplace Safety. This award recognizes WEC for its workplace practices and low rates of injury.

This is WEC’s third time receiving the Governor’s Award. As Safety and Environmental Compliance Specialist Rick Stergas put it, “Safety at WEC is part of the culture. We have long believed in building a culture of safety, all our staff contribute to this culture of safety, and this award recognizes the results.” In 2016, WEC vehicles drove 225,000 miles without a driver-related accident. This September, we marked 700 days without a lost time accident.

We have 37 hardworking employees who are focused on safely delivering reliable, affordable, and renewable power to our members. WEC employees work in all sorts of weather, at all times of the day, under some very unforgiving conditions. The attitudes, beliefs, and values that we share in relation to safety in the workplace is the basis for our organizational culture. It is how we do things each and every day.

Congratulations go out to all WEC employees!

Hurricane Relief and Support

WEC is working with several municipal and cooperative utilities across New England to assemble teams of line crew to help regions impacted by hurricanes. WEC crew are headed to the Virgin Islands to provide emergency restoration service in St. Thomas.

The conditions will be difficult and intense. St. Thomas was decimated by Hurricanes Irma and Maria, and the electric grid was devastated. Our staff may need to sleep in tents and will work long hard hours in hot weather. This is grueling and difficult work under regular conditions. The extra stress of hurricane damage conditions will make this a very difficult charge.

In times of need, we share resources and assistance to get the power back on across the US. We are there to help the island rebuild, and we thank WEC employees who are volunteering.

Rate Design Listening Groups

We want to know what our members think about the current way we charge for our services, and we also want to find out what folks think about alternatives. So, we are planning to hold listening sessions in early November on this important topic.

The state’s goal is to reach 90% renewable in all forms of energy by 2050 (electric, heat, and cars). We already have a power mix that is 100% renewable, and we want to help move members off fossil fuel and instead use renewable electricity from WEC to power cars and heat homes.

At the same time, our current rate structure is designed to encourage energy conservation—not more energy use. What this means is we’ll ask a sample of Co-op members to discuss our rates and how we charge for service. This sample group will give us representative information about what our larger membership thinks. This is a focus group research technique, though we think it’s more accurate to call it a listening group. This technique is commonly used to learn about a population’s perceptions, opinions, beliefs, and attitudes towards a product or service.

We believe listening groups will be a very informative and helpful part of WEC’s rate design discussion and process. If you are called on, we hope you will share your thoughts with us.

2018 Rate Increase?

Staff and board are looking now at our budgets and costs for the upcoming year. It appears we may need to increase rates in 2018. It is too soon to put a number on the increase, but there are several factors in play. We already know in 2018 we will face rising costs from transmission and regional grid operator ISO-NE. With rising costs, declining sales, and no way to offset the new expenses, we expect a rate increase will be needed. We will keep you apprised.

WEC sponsors Accel-VT

This fall we joined all the other utilities in the state to sponsor Accel-VT, a business accelerator for people working to address issues in how we use energy and to help the grid integrate better with renewables.

To us, it’s a win-win-win: encourage job growth in our communities, stabilize the grid, preserve natural resources. An opportunity to support innovation and positive change in our communities is a good investment, and we can’t wait to see what great ideas come from participating entrepreneurs.

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Governor Phil Scott presents the Governor’s Award for Outstanding Workplace Safety to Safety and Environmental Compliance Specialist Rick Stergas. It’s the third time WEC has won this prestigious state award.

Serving more than 10,800 member/owners in central Vermont. A rural electric cooperative since 1939.
Right-of-Way Clearing

continued from page 1

trees and branches. All this work is done by tree crews using chainsaws and chippers—not chemicals. Since 2003, WEC has implemented a no-herbicide policy. “This is a very unusual practice for an electric utility,” said General Manager Patty Richards. “I’m so proud we do it this way.”

It’s in keeping with WEC’s environmental mission. For WEC members and leadership, not using herbicides on trees is consistent with its commitment to energy efficiency and its 100% renewable power supply. Richards also sees the policy as fiscally responsible, since it’s limiting harm. “We don’t yet know what long term effect herbicide chemicals have” on local soil and water sources, she points out. What WEC spends on tree crews goes straight back into the central Vermont economy, and does not fund chemicals and the corporations that make them, like Roundup, a product of the controversial agribusiness giant Monsanto.

Richards is also mindful that, although WEC has the right to clear them, rights of way cover 5,000 acres of land privately owned by Coop members. So, she said, it’s the right thing to leave low-growing apple and nut trees intact, reroute poles to preserve towering maples, and site new lines to avoid cutting old growth and preserve scenic road canopies. “Our trees are an important part of what makes Vermont special,” she explained. “WEC has adopted a policy of good environmental stewardship, and we include aesthetic principles into our tree trimming practices.”

WEC runs power on 1,250 miles of overhead line. Tree crews cycle through sections of line roughly every 10 years. They must clear about 130 miles of line each year to stay on top of the growth, in addition to managing downed or dangerous trees called in by line crews and concerned members.

Crews work all year to keep up. Matt Foster Logging out of Craftsbury is one of five local tree crews WEC subcontracts. Foreman Trey Allen says they’re out in all weather. There were a few bitterly cold days last winter, “but we put our heads down and worked. This year’s been pretty rainy, but we still worked every day this summer,” he said, as his crew sawed and chipped brush behind him on a stretch of road in Groton.

The tendency of the regional environment is to revert to hardwood forest, said Myers, who has a degree in forestry from the University of Vermont. “Creating an opening is unnatural to that forest,” he explained. Quick vegetation growth is especially apparent in sections trimmed a few years ago. “We get a lot of regrowth off the cut stumps,” he said, pointing out a dense thicket of tall maple stems on a section of line on Route 302.

Myers has deep respect for the tree crews. “It’s very dangerous work. Logging itself is dangerous. You have some skilled loggers, and then you add a 7,200 volt line into the equation,” he said. “They’re up in the air working close to these conductors. They need to know their minimum approach distance [two feet, four inches from a live wire], voltage, which equipment is energized and which is grounded.” They also need to know aerial rescue, CPR, and knots, he added.

Tree crew foreman Trey Allen says he loves his work. He’s trained as a lineman himself, and is an expert climber. But there is one other challenge lurking on the cut edge of the forest: ticks. “I lost count after 56, just on myself,” he said, and that was early in the season—long before the leaves began to turn.

Mike Myers in a stand of new dense brush that grew out of flat-cut stumps along a stretch on Route 302. Dense brush is very difficult for lineworkers to move through, especially in the dark or in bad weather.

Right of way crew foreman Trey Allen of Matt Foster Logging trained as a lineworker and is an experienced climber. Right of way crews work year round to keep the lines clear of vegetation hazards.

DID YOU KNOW?

WEC is one of only a few utilities in the nation that do not use herbicides on rights of way.
Cybersecurity, WEC, and the Grid
A multi-part series examining real and perceived threats to the systems that provide our electric power

Hurricane Maria wiped out power in Puerto Rico. A breach at Equifax compromised sensitive data belonging to 143 million people. North Korea threatened a grid-tinging electromagnetic pulse attack. In 2003, a tree took down a transmission line in Ohio, and much of the Northeast sputtered into darkness. And last December, nasty reporting inflamed an alert from Burlington Electric Department into a not-exactly-accurate story of Russian attackers hacking the US grid through their neighbor utility.

These are reminders of the importance of cybersecurity. We all rely on electric power—and we could be very vulnerable if natural or human interference takes down the systems that deliver it. Throughout the grid, security experts closely watch forces of nature, data theft, infrastructure attrition, and high-profile threats. All of these affect the security of the systems that deliver our electricity.

Recently, member Paul Ohlson of Calais raised the question of threat preparedness with the Co-op. He wanted to know “if my utility company is preparing for situations we hope will never happen.” Like a malicious actor hacking in and shutting down the electricity grid. WEC is downstream, electrically speaking, from larger utilities, and relies on electrical systems transmitted through lines managed by Green Mountain Power (GMP) and Vermont Electric Power Company (VELCO) via the New England grid managed by ISO-NE in Holyoke, Massachusetts.

But, Ohlson pointed out, WEC generates its own electricity via the Wrightsville hydro plant and the Coventry landfill generator, and there is distributed energy through private solar installations. If a hacker or act of violence caused the entire grid to crash, he wondered, “Is there a way to draw a wall around us, in case the rest of it goes down?”

His concerns are practical. Yes, WEC and its upstream neighbors are prepared and vigilantly monitoring for situations we hope will never happen. And while there’s not exactly a way to wall WEC off from the grid, sections can sense disturbance and isolate—a strategy that kept most of Vermont’s lights on during the 2003 blackout. We’ll come back around to that.

All WEC staff and utilities up the transmission line unanimously put forth two messages: one, that there are robust security plans in place, and two, the risk of a single malicious main event intended to cause widespread, long-term damage is far smaller than the more common risks of hackers looking for personal data, and most of all, weather-related outages.

This article is the first in a series on cybersecurity. We’ll work to understand the relationship between WEC and the grid and the basics of how cybersecurity works at the different stops on the grid. Then we’ll evaluate the risks and how transmission and distribution utilities prepare for them—and look to how each of us can offset risk. The goal is to educate and deliver advice. But take note that this isn’t exhaustive: some information must be filtered to protect the systems that keep us secure.

Protection, detection, and response upstream
WEC is a local distribution co-op utilizing regional substations through transmission: as a result, vulnerabilities up the transmission lines not owned by WEC would certainly affect the co-op. As General Manager Patty Richards put it, “The grid is like a big spider web,” of electrically connecting Vermont utilities, the greater New England grid, and neighbors New York and Quebec. “One tweak in the web can cause trouble across the system. But the web is built to hold if part of it becomes damaged or broken,” said Richards.

Richards and Currents editor Katie Tilton reached out to ISO-NE, which manages the New England grid, and VELCO, the Vermont Electric Power Company, which manages the transmission network that brings power to local utilities. We asked about cybersecurity protection, detection, and response—what upstream utilities do to protect the system and keep the lights on for WEC members. Both ISO-NE and VELCO staff remarked that the sensitive nature of the security they have in place limits the amount of information they are able to share publicly about cybersecurity.

A representative at ISO-NE explained that the organization staffs a 24-7 Security Operations Center that constantly monitors the network, and that all ISO New England employees are required to undergo an annual training in cybersecurity. The organization also participates in a biennial exercise called GridEx, a project of the North American Electric Reliability Corporation (NERC). The exercise is designed to simulate a cyber/physical attack on electric and other critical infrastructures across North America. The representative added that if something does happen to interrupt the reliable operation of the grid, whether a malicious attack or a natural disaster, the system is protected by both physical and cyber redundancies. Which means: if something were to happen, the backup systems are already ready.

Lessons from the 2003 blackout
Richards pointed out that it’s good to have neighbors—in New England’s case, Canada and New York. If power ever went out in New England, or neighbors can transmit electricity to us. The absence of neighbors, she said, is part of the reason Puerto Rico’s grid was so vulnerable to hurricane damages. “We have got to continue to keep the grid reliable because of the vastness of the spider web,” she said. And, she added, if there is a transmission problem elsewhere in the nation, our region can isolate our portion of the grid.

Many of these lessons came out of the 2003 Northeast blackout, which was caused by a tree taking down a transmission line at the same moment that a natural gas plant’s generation hiccuped. “Things tripped offline, literally in seconds, from Ohio down to New York City,” remembered Richards. But grid equipment in New England could tell that something was wrong in the transmission system, and automatically broke the connection. “Basically, New England disconnected from New York in a nanosecond;” said Richards, leaving only a few border regions briefly without power.

As a result of the blackout, NERC (the North American Electric Reliability Corporation) became the enforcement arm of the government, stepping in and fining utilities up to a million dollars a day if they fall short of standards of tree trimming, maintenance, and other reliability standards. In addition, more redundancies have been built into the system, Richards explained, so that the grid can withstand multiple occurrences happening at the same time—the probability of which is astronomically small.

The region has invested in infrastructure, such as transmission, confirmed the ISO-NE representative. As a result, the grid meets stringent reliability standards set by NERC, its regulators, and organizations that determine best practices for grid operations.

Layers of an onion
Vermont Electric Power Company, or VELCO, operates transmission lines in Vermont, connecting regional power to local distribution utilities. One of its security strategies is to enforce “concentric rings of protection and firewalls,” said Director of Technology Dan Nelson, around its computers.

That way, any computer connected to the Internet is completely isolated from the grid to control systems. “There are very tight controls on our inner core,” said Technical Lead on Security and Compliance Kris Lewia, adding that any data that control systems require for updates is thoroughly investigated for integrity before it is imported. Nelson and Lewia likened the system to the layers of an onion, with an absolute stop between each layer.

This type of firewalling is intended to protect the grid control computers from infection from Internet sources. Like a port of entry, the malware that caused hackers to black out a portion of Ukraine’s power grid for a few hours last December initially reached operators through email. A firewall isolation ring approach probably would have helped—Ukraine’s IT services are vastly different from the United States system. But any computer connected to the Internet is vulnerable to malware. Antivirus updates and employee education on Internet safety are critical protection for any Internet-linked computer system—those internet-connected computers on the control layer of the onion are “the first line of defense to keep [us] safe, reliable, and secure,” said Lewia.

WEC remains analog
Like most utilities, WEC uses computers and software to monitor its grid. But unlike most utilities, WEC does not use these systems to control its substations remotely. “We don’t run any of our substations or devices using computer systems connected to the Internet,” explained WEC’s Manager of Information Services Kevin Stevens. This decision to have an analog control system actually makes WEC safer, says Stevens, likening the setup to a home computer that is plugged in but not connected to the Internet.

There are two computer systems at work: the system that monitors the electric distribution grid, and the business side. That includes things like email and electric account management, and these necessarily connect to the Internet. We’ll look at securing that system, and preparing for weather events, in the next issue.

“There’s a lot going on as it is. It’s our folkway, hometown co-op utility,” Richards said. “But we recognize cybersecurity is an evolving and complex concern, we take it very seriously, and we are committed to preventing threats that could cause long-term outages.”

Next in the series: Assessing the threats and offsetting risk
A few months ago we traded in our six-year-old Prius for a 2017 Chevrolet Bolt EV. We got a 240V charger installed in our garage a few days later.

We got a 240V charger installed in our garage a few days later.

We've also had less worry about finding chargers since the PlugShare and ChargePoint apps on our phones find them for us. Generally, there are medium-speed chargers available almost anywhere you go; the map is dotted with them. Fast chargers, that can give us 40-60 miles of range in a half hour, are less ubiquitous, but we've had a couple of experiences where one didn't want to charge—we were always able to resolve them, but it can be a worry. But we expect this concern to diminish greatly over the next year or two. EVgo is improving their service, Chevrolet dealerships are putting in fast chargers, and other providers are coming online. One key consideration that Co-op members should keep in mind is whether they're a one-car or multi-car family. We're a one-car family, so by going electric, we're all-in. If we have to do a long trip (like an upcoming one to the airport in Providence, RI) we have to plan out charging stops to make it work. (Apparently airplane pilots are often early adopters of electric cars because they've already used the idea to planning their refueling before they take off.) Or rent a car.

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However, most people have two cars in their driveway, and if you have two cars, replacing one with an EV is a no-brainer. Knowing that, for that rare day you need to drive hours and hours, you can always just use the gas-powered car, means you can reap the benefits of an electric car for at least one of your drivers without range anxiety even being a consideration.

Special thanks to Frank Perricone of WEC member Frank Perricone with his family’s all-electric Chevrolet Bolt.

Member Writes: On Driving an Electric Car

By Frank Perricone

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Member Writes: On Driving an Electric Car

By Frank Perricone

To call the Co-op, dial 223-5245 Mon - Thur 7:30 am – 5 pm and Fri 7:30 am – 4 pm.; toll-free for reporting outages & emergencies, 1-800-WEC-5245.
What’s my incentive to Button Up?

If you’re looking to seal up your home, or are in the market for energy-efficient heating systems, WEC’s Button Up! home energy efficiency program offers cash incentives to members. In combination with Efficiency Vermont incentives and grants from the Clean Energy Development Fund, you could save a lot of money:

- **$6,000 total**
  - $6,000 WEC
  - $5,000 Efficiency Vermont
  - $4,000 Clean Energy Development Fund
- **$2,600 total**
  - $2,450 Solar hot water
  - $850 Cold climate heat pump
- **$2,450 total**
  - $2,450 Solar hot water
  - $850 Cold climate heat pump
- **$1,000 total**
  - $1,000 Pellet boiler
  - $1,000 Air sealing

This chart reflects recent changes to incentives.

Before you buy any new energy-efficient appliance, call Bill Powell, WEC's Energy Coach, to learn how you can take full advantage of this program:

**802-224-2329**
energycoach@wec.coop
Democracy in Your Light Bulb

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parts of the state in the same way electric co-ops talked about it in the 1930s. “We’re very proud they use our model. For some of us, that’s still in our mindset,” he said, to bring resources to those the for-profit industry won’t serve.

That’s why the cooperative model is so important. “Co-ops are a different way of doing business,” said WEC treasurer Don Douglas, whose experience includes WEC, food co-ops, student co-ops, and even a garbage co-op. “They’re all over the world, especially in rural areas, where farmers and small businesspeople band together to get a better deal on buying or selling their product. The whole idea of not trying to make a profit, to have all the excess money redistributed through the membership, is pretty radical."

Rural electric cooperatives, like WEC, are just one of many kinds of co-ops. Vermont is nearly “a thousand co-ops strong, which serves a lot of people,” said Bernstein. Chances are, you belong to or support at least one other co-op—whether agricultural, like Cabot Creamery Cooperative; food, like Plainfield Co-op, Hunger Mountain Co-op in Montpelier, or Buffalo Mountain Co-op in Hardwick; a credit union, like Granite Hills based out of Barre or Vermont State Employees Credit Union (VSECU), which has historically partnered with WEC; or even the famous ski cooperative Mad River Glen in Fayston.

For many co-ops, though, members identify how the service is useful to them, and opt in. Electric co-ops are different. WEC members are members just by virtue of living in WEC’s service territory.

So what are the benefits of belonging to WEC? First of all, said Bernstein, power lines where no investor-owned utility wanted to build. And a voice: “Our co-op has been willing and able to speak out on issues when they’re important both for the benefit of our members and Vermont,” he says.

Another big one is capital credits, said Douglas, the process by which excess revenue is redistributed to all members instead of profiting a small group of shareholders.

Most important, Douglas said, “it’s democratically elected governance. Before I was on the board, I called board members and asked them questions. You can’t do that with other utilities. Here, we are mandated to reflect community values.” He pointed to three major decisions: the Co-op’s historic choice to stop using nuclear power, its commitment in 2000 to develop a 100% renewable energy portfolio, and its ongoing preference to hire local tree crews to control vegetation instead of applying herbicides around power lines. All of these, he said, are choices raised and supported by the membership.

Democratic governance also requires participation. For example, WEC is currently asking members to participate in focus groups (or as the Co-op’s General Manager Patty Richards prefers to call them, “listening groups”) for their input in redesigning rates. Showing up to participate isn’t as easy as just paying a bill, Hamilton acknowledged. “Electric systems can be complicated,” she said. But, she said, there’s value in “having our governance held by the people who benefit from the resource, rather than shareholders who are invested for a bottom line.”

That’s why WEC’s commitment to the environment and the 41 communities in its service area reflects the values of its members. Membership in an electric co-op, said Hamilton, “gives us the opportunity as a community to define and prioritize our values.”

Join WEC Staff in the 2017 Toy Joy and Toys For Tots Campaigns

Washington Electric Co-op is enthusiastically participating in Toy Joy and Toys for Tots again this year. Toy Joy is coordinated by Rose Wheeler-Stillson in memory of Zachary S. Wheeler and Toys for Tots is coordinated by Daniel Duffy from the Marine Corps Reserve. Both campaigns work to make sure children in need receive toys for the holidays.

For the past three years, WEC employees, members, and vendors generously filled boxes located at WEC’s office, 40 Church St, and at WEC’s Operation Center, 230 Fassett Road, East Montpelier, VT.

You are invited to stop by between now and December 15 and leave unwrapped toys for children from birth to 15 years at these locations. Toy Joy accepts items in new and near-new condition. Toys for Tots accepts only newly purchased items.

Please join your Co-op staff in this fun and charitable effort!

WARMTH Contributions Help Our Neighbors Bear Long Winters

It’s starting to get cold, and every year, many Vermonters struggle to pay their home heating bills. WARMTH is Vermont’s home heating assistance program, funded by contributions from electric utility customers throughout the state, and operated locally by the Central Vermont Community Action Council.

There are two ways to support this important program. Operation Round-Up is a monthly program that rounds your electric bill up to the next dollar. This is a way to contribute a little bit at a time. Another option is to contribute a lump sum, or to authorize WEC to send an extra dollar or five a month to WARMTH. And, of course, you can do both.

To sign up, look for the Operation Round-Up box on your electric bill and initial it. If you’d like to add more, you can indicate that on the form. And you can always call our Member Service Representatives at 802-223-5245.

Thank you. It takes all of us to keep each other warm and our community strong.

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