

Getting Back On Line

A major storm has just hit this electric cooperative system. Here's a simplified look at how your co-op typically goes about the task of restoring electric service.

WE HAVE COME TO EXPECT THAT IF WE LOSE ELECTRIC SERVICE IT WILL be restored within a few hours at most. But when a devastating event, like a tornado, ice or snow storm causes major damage to a co-op's system, longer outages cannot be helped. Crews work long, hard hours restoring service, but it's a task that needs to be done methodically to be done safely. Every electric cooperative follows a basic principle when it comes to restoring power — priority goes to the lines that will get the most people back in service the quickest. This usually begins with main lines from the substations that can affect 200-600 members, and continues out to tap lines, which may affect 30-200 members, and then to individual service lines affecting just 1-5 members.

“Priority goes to the lines that will get the most people back in service the quickest.”

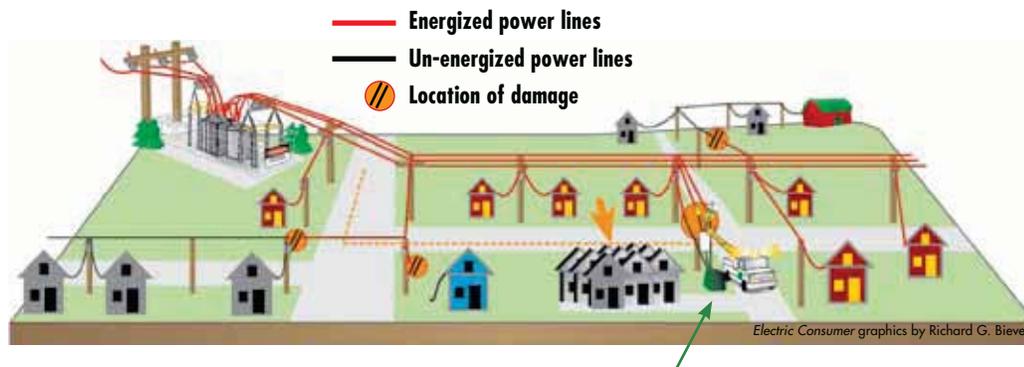
Step 1. “All repairs start with the main line.”

The substation is energized but a main distribution line is damaged near the substation, leaving most members without power.

All repairs start with the main line. A large number of members (shown with orange arrows) will have power returned once the main line is fixed. All other repairs would be pointless until this line is restored as it feeds all the other lines.



Step 2. “With the main line restored, the line crew can isolate other damage.”

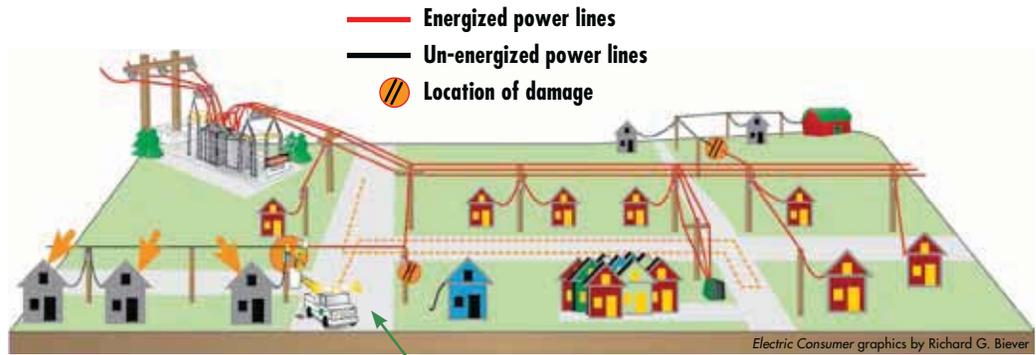


With the main line restored (now shown in red), the line crew can isolate other damage and prioritize repairs. Though a couple of repairs were closer, fixing the line that serves this subdivision down the road will get a larger number of consumers on more quickly.

One stop and an entire subdivision has power again.

Step 3: "To fix this tap line will restore electricity to the three homes"

Moving back down the road to fix this tap line will restore electricity to the three homes marked with arrows.



Back down the road, the crew makes one repair and restores power to this stretch of line.

Step 4: "A smaller tap line...is next on the list for the line crew."

This repair restores power to these homes and farm.

A smaller tap line serving a number of homes and the farm on the hill is next on the list for the line crew. The move probably doesn't make the folks in the blue house too happy. They've seen the crew driving by their home and working right across the road. They see lights in homes of all their neighbors but they don't have power.

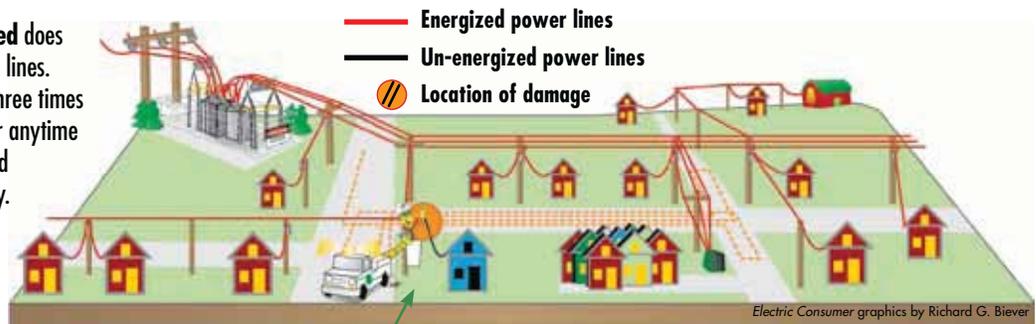
That's because even though electricity is coming to their pole (that happened with the first repair in Step 1), the service line from their pole to their meter is damaged. Individual repairs come after all distribution and tap lines are restored.



- Energized power lines
- Un-energized power lines
- ⊘ Location of damage

Step 5: "Take care of individual repairs last."

Only after the tap lines are repaired does the crew start work on individual service lines. The crew has been past the blue home three times and could have stopped to restore power anytime after the first main line was repaired and electricity was flowing to the pole nearby. But it's not fair to other members for a crew to spend hours fixing one outage, when the crew can move down the road and restore power to dozens of homes in the same amount of time.



Individual repairs begin once all other lines are repaired.

What to Do When Your Service is Interrupted!

1. Check for any tripped circuit breakers or blown fuses.
2. If you determine the problem is in your own wiring, call an electrician.
3. If the problem does not appear to be with your wiring, contact a neighbor to see if he/she is also affected by an outage.
4. To report your outage, call the Slope

- Electric office at **701-579-4191** or **800-559-4191**.
5. Give your service location, the billing name on your monthly statement and a telephone number and a call back telephone number.
 6. Don't wait for someone else to call because you may be the only consumer without power, and your

call can help us determine where the problem is.

