

Some tips for staying connected during and after Hurricane Sandy

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NEW YORK (AP) -- When disaster strikes, phone and Internet service often takes a hit, right when it's needed the most. Here are some tips for communicating with emergency services and loved ones as Sandy collides with the East Coast:

- Cellphones may work even if the power goes out, but you can't count on them. The phones themselves, of course, have batteries. And the cell towers that relay your calls and other messages are often equipped with backup batteries and some have generators. Verizon says all its sites have at least eight hours of backup power.

But tower batteries run down, and refueling generators with diesel can be difficult if roads are flooded. If hurricane recovery drags on for days, cell service may go out due to a lack of "tower power." This is what took out the cellphone network in southern Louisiana after Hurricane Katrina in 2005, complicating rescue and recovery efforts.

After Katrina, federal regulators wanted to mandate that all cell sites have at least eight hours of backup power. But much of the wireless industry objected to the rule, claiming it was illegally drafted and would present a huge economic and bureaucratic burden that would divert resources from the most disaster-prone areas. The requirement was tossed out.

Power loss isn't the only threat to a wireless network. Calls are carried from the towers by landlines, which are also susceptible to damage, and they connect to communications networks that also need power to function.

Wireless carriers have a menagerie of backup equipment to deploy in areas where their infrastructure has been destroyed, or where emergency responders need extra capacity. Towable cell towers are called Cells on Wheels, or COWs, while Cells on Light Trucks are called COLTs. AT&T calls generators on trailers GOATs.

- Even if cellphones work, wireless networks may be overloaded by people calling to check in on each other or surfing the Web. That's why cellphone companies recommend text messaging rather than calling in any disaster, because text messages use much less network capacity. They also don't use much battery power. Using Facebook and Twitter can be tempting, but try to keep usage brief and use the phone's apps rather than web browsers if possible, to minimize network use and battery drain.

If you have a battery-powered radio, use it to get your news updates rather than taxing the wireless network and your phone battery.

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- Keep your phones plugged in so that they're fully charged if the power goes out. There are various products available that can recharge a cellphone from a larger rechargeable battery, AA batteries, or through a car adapter.

- Corded landline phones may work even if the power goes out, because they're powered from the phone jack, which in turn is powered from the phone company's facilities. These are equipped with generators and backup batteries.

Cordless phones won't work if your home loses electric power, nor will Internet phone services like Vonage and Ooma.

Even if the phone company's facilities have backup power, the phone lines themselves are susceptible to wind and water damage.

- Phones hooked up to cable or Verizon FiOS aren't powered by those lines, but the modems in the home usually have backup batteries that will last about eight hours. That means corded phones will work without your home's electric power with these services. Again, cordless phones will be useless.

- Vehicle emergency systems like General Motors Co.'s OnStar rely on a wireless network (OnStar uses Verizon's), so they're susceptible to network outages, just like cellphones. However, OnStar says customers report better luck connecting with their car systems than with cellphones, probably because the car has a much larger antenna, allowing it to reach more distant towers.

- For true disaster preparedness, only a satellite phone will do, but the prices are steep. Phones for the Iridium network cost more than \$1,000, and the calls cost more than \$1 per minute on most of the available calling plans.

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