

Could Wildfire Starts From Powerlines be Stopped ?

by Stephen Skinner 9/23/23

Most Wildfires are started by humans. With aging transmission lines and greater dependency on electricity, therefore the Power Grid System is experiencing unplanned wear and tear and shorten longevity. At present much of humanity has bought into a promoted agenda to over react to “global warming” caused by human production of CO₂ (Carbon Dioxide molecule). This has fostered to use less petroleum and more higher cost electricity.

This isn't sound science. If one wants to understand this statement more, read the book “Fake Invisible Catastrophes and Threats of Doom”, by Patrick Moore the co-founder of “GreenPeace” and holder of a PhD in Forest Biology. My article is about the above title and nothing else.

As stated many times on this website (<https://wrn.solutions/>), TIME is the most important factor. When a fire start is detected, the reaction to putting it out before it becomes WILD, is paramount. Back to transmission lines in remote areas surrounded by fire prone vegetation (fuel); it could be detected in a matter of seconds, thru the use of a “time domain reflectometer”. This tool can be used to characterize and locate faults in metallic cables(for example, twisted pair wire or coaxial cable), and to locate discontinuities in a connector. Or any other electrical path.

In a transmission line, an impedance mismatch will cause a voltage reflection. Then you just need to know the propagation speed of voltage along the transmission line. At that point you can transmit a test pulse and time how long it takes for the reflected voltage to appear. Propagation speed multiplied by time equals the distance traveled. Because the wave had to go there and back, that calculated distance is the length of cable to the break, divided by two.

The location of the line break would be aided by having each transmission tower have a GPS transponder at its highest point. This Global Positioning System would provide a location for a repair crew via helicopter to fix the problem. Before the repairs, the power supply side is turned off by an automatic switch(maybe a GIFC) adjacent to the problem tower as determined by the GPS locator. This ground fault circuit interrupter(GIFC) would deactivate that segment of the transmission line to be ready for a repair crew that would always have a repair kit of: power line segment(tower to tower length), new GFCI switch and a device to check the GPS transponder is working correctly,(with a standby replacement).

Now some comments on putting less demand/load on the existing system. As electrical consumption is ever increasing, add power generation at the source of consumption to lessen the load on the Power Grid. By somewhat decentralizing electrical power generation, were going back to an old Federal Initiative of late 1978, that was attempting to be more electrical energy independent by the Public Utility Regulatory Policies Act (PURPA enacted Nov. 1978).If residents and business were producing solar panel or wind generated power at the appropriate site and location on the site and buildings, this would not only lessen the load on the “grid system”. But provide energy independence from centralized power structure. I'm also referring to not just the electrical power itself, but the entities that want to control ALL of us.

Now that you can understand that there is technology to prevent “broken main powerlines” being the source for WILDFIRE ignitions, we should question the authorities to STOP turning off the power when there is a high wind FEAR notice.

If power is left activated in a condition of destructive winds, then this above mentioned safety system will signal the exact location of the break to be repaired.