



An All-of-the-Above Approach to Wildfire Mitigation

High-impedance faults and broken conductors are challenging to detect. To effectively mitigate electrically ignited wildfire and public safety risks, we must use a layered approach that employs the best technology available today. SEL solutions aid utilities in preventing, detecting, and responding to faults at both the transmission and distribution levels.

Transmission System Solutions

- Predict incipient faults with line monitoring.
- Clear faults faster with time-domain protection.
- Detect broken conductors before they hit the ground.
- Precisely locate faults using traveling waves.
- Visualize system disturbances with wide-area situational awareness software.

Distribution System Solutions

- Clear faults faster with high-density coordination and wireless protection systems.
- Detect more high-impedance faults with Arc Sense™ technology.
- Detect broken conductors before they hit the ground using synchrophasor technology.
- Visualize system disturbances with wide-area situational awareness software.
- Isolate faults, reroute power, and restore service faster with modern FLISR software.





Mitigating Wildfire Risk in Southern California

One wildfire mitigation solution, developed in partnership with San Diego Gas and Electric (SDG&E), uses synchrophasor data to detect and de-energize broken overhead conductors within one second—less than the time it takes a broken conductor to fall 25 feet. De-energizing the affected line section while the conductor is still falling eliminates the risk of an arcing ground fault or energized circuits on the ground.

SEL Engineering Services delivers turnkey wildfire mitigation solutions, including comprehensive consulting, commissioning, and field testing.



Watch and Read

Mitigating Wildfire Risk in Southern California
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