

Visibility to Detect and Prevent Wildfires

Using Smart Grid Monitors to Mitigate Risk

40,000+

Wildfires happen every year in the US.

National Interagency Fire Center

5%

Wildfires in US caused by electric power generation.

National Fire Center

\$16.5B

Total cost of Camp Fire, one of the most destructive utility caused wildfires.

National Fire Center

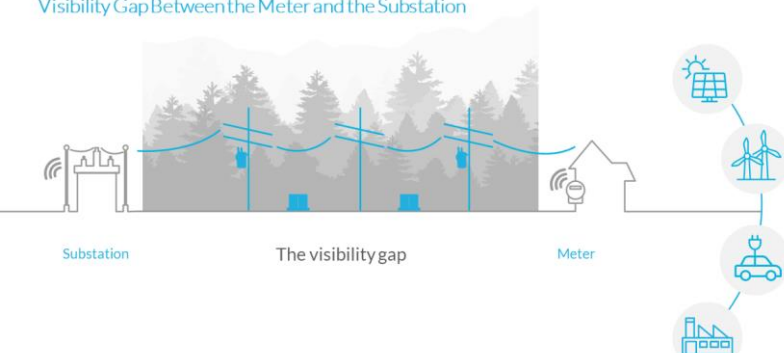


"The effects of wildfires are becoming more intense: in many fire-prone areas, wildfire seasons are growing longer, and average wildfire sizes are increasing. At the same time, wildfires are occurring in areas that have not faced significant risk in the past... Utility infrastructure is aging and is not being modernized quickly enough to address changing conditions."

California Public Utilities Report 2020 Report on Reducing Utility-Related Wildfire Risk

To Prevent Wildfires, Utilities Must Have Visibility into Risks

Significant blind spot
Visibility Gap Between the Meter and the Substation



To mitigate wildfire risks, California Public Utilities Commission recommends utilities improve:

- Situational awareness
- Grid design and resilience
- Asset management capabilities
- Grid operations
- Resource allocation methodology

Improvements require visibility, data, and analytics.

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Ubicquia DTM+ Makes Existing Infrastructure Smarter and More Visible

- Installed on single/3 phase, pole, or pad mounted transformers.
- Collects and sends transformer and grid performance data over an LTE network to UbiVu cloud-based asset management system.
- UbiVu uses predictive analytics, reporting, and visualization to eliminate the visibility gap.
- Built with open APIs that allow you to integrate data into existing Grid Operations and OSS systems.



DTM+ Delivers Greater Visibility into the Causes of Wildfires



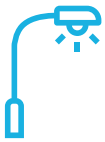
Overgrown Vegetation

Detect momentary faults caused by vegetation overgrowth; vegetation contact is the most common cause of utility-related ignitions.



Ignition Fires

Detect overheating and electrical faults by monitoring temperature, pressure, current, and voltage which can cause insulation materials to break down and ignite.



Pole Knock-Downs

Get alerts when poles are no longer upright. Knocked-down or tilted poles can contribute to power line-related fires.



Arcing

Detect and get real-time alerts when electrical energy jumps from one point to another, creating a spark or arc.



Powerline Failure

Get real-time data on upstream and downstream energy to spot and act quickly when lines fail, which can cause wildfire through sparks and transmission of electric currents.



Acts of Nature

Detect many issues caused by extreme weather, including a power surge caused by lightning or failure by falling trees.

About Ubicquia

Ubicquia® creates intelligent infrastructure platforms that are compatible with the 360 million streetlights and 500 million transformers that line our streets. They deliver energy savings, enhance public safety, bridge the digital divide, and improve grid resiliency. Ubicquia products are deployed by more than 700 customers including some of the largest cities, utilities, and mobile operators across North America. To learn more visit www.Ubicquia.com or contact us at info@ubicquia.com.