DRYAD

Protecting critical infrastructure and reducing financial risk

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Wildfires Are a Billion-Dollar Threat to Utility Operators

01

Wildfires aren't just an environmental hazard—they pose a major financial and operational risk to power grids and rail networks. Aging infrastructure, high-voltage transmission lines, and railway corridors cutting through wildfire-prone areas increase the likelihood of ignition events—exposing utilities to billions in damages, lawsuits, and regulatory penalties.

The Hidden Costs of Wildfire Damage

02

- Multi-Billion Dollar Liabilities: Utilities face skyrocketing wildfire-related damage claims and lawsuits.
- Soaring Insurance Premiums & Regulatory Fines: Fire incidents lead to stricter oversight and higher operational costs.
- Service Disruptions and Lost Revenue: Power outages and railway shutdowns damage reliability and customer trust.

A Smarter, Proactive Approach to Wildfire Mitigation

03

To mitigate wildfire risks, utilities need to move beyond traditional fire detection methods. AI-driven ultra-early fire detection allows power and rail operators to:

Safeguard Power & Rail Infrastructure
Prevent wildfires before they disrupt critical services.

Ensure Regulatory Compliance
Meet strict wildfire safety mandates with real-time data detection.

Reduce Financial & Legal Exposure
Avoid costly liabilities, fines, and damage claims.

Silvanet: The Industry's Most Advanced Early Wildfire Detection Solution

04

Silvanet provides a scalable, AI-powered fire detection network designed for high-risk utility environments:

- Detects Fires Within Minutes: Enabling faster response times and reducing suppression costs.
- Seamless API Integration: It allows fire detection data to be integrated into existing utility monitoring and emergency response systems.
- Ensures Business Continuity: Minimizes downtime, preventing grid failures and railway disruptions.
- Lowers Insurance & Legal Risks: Supports compliance with wildfire safety regulations across power and transport sectors.

Case Study: Detecting Pole Fires to Protect Utility Infrastructure

05

In April 2024, the MEDSEA Foundation, in collaboration with Vodafone Business and Extreme E, deployed Silvanet sensors in the fire-prone forests of Santu Lussurgiu, Sardinia—one of the regions most affected by the devastating 2021 wildfires.

Twenty advanced sensors were installed across several hectares, creating a real-time fire monitoring system capable of detecting heat, humidity, gas, and temperature fluctuations. In a live fire simulation, the system successfully detected the fire within minutes, triggering alerts that enabled an immediate response.

How Utilities Can Take Control of Wildfire Risk

06

Utilities are under increasing scrutiny to implement wildfire mitigation strategies that align with regulatory mandates, climate adaptation plans, and financial risk reduction. Silvanet provides a proven, scalable solution that integrates seamlessly with existing infrastructure.

Supports grid resilience strategies with AI-driven early detection.

Reduces operational risks linked to transmission line failures and wildfires.

Strengthens regulatory compliance efforts to meet evolving wildfire safety requirements.

Ready to future-proof your wildfire prevention strategy?

Let's discuss how Silvanet can help safeguard your operations.

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URGENT FIRE ALERT!

Contact us today to learn more

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