



WILDFIRE ALERTING FOR QUICK INFORMED DECISIONS

LIKE FIRE RESPONSE TEAMS, UTILITY GRID OPERATORS AND EMERGENCY MANAGEMENT GROUPS ALSO NEED TO HAVE EASY ACCESS TO ACCURATE AND DETAILED WILDFIRE DATA AS SOON AS POSSIBLE SO DECISIONS CAN BE QUICKLY MADE ABOUT THE THREAT TO THE GRID.

Many utility and gas transmission companies have lines in remote areas, especially a limited number of higher kV transmission lines which bring an increasing supply of essential renewable energy. The remoteness of these areas provides little opportunity to observe what is happening.

Wildfires in these regions make fighting and containment extremely difficult for fire response teams. Damage can be severe and can cause interruption to critical transmission which can seriously impact the planned supply, limit grid balancing

options and force outages. The cost of unplanned generation to replace energy lost from the fire can increase the cost of energy by thousands of dollars. If the wildfire hazard is severe enough, the cost in crew response and infrastructure replacement could reach into the millions.

The threat of wildfires in the Western US and Canada have proven to be an issue in not so remote areas as well. Wildfires not only destroy electrical and gas transmission assets, but they have tragically cost lives, displaced families, destroyed businesses

and homes. Electric Grid Operators need accurate and timely wildfire alerts and weather forecast data to effectively plan their response. HP Gas Transmission Operators must also rely on these alerts to act quickly in fire threatened areas and make sure valves are closed before mandatory evacuations limit access to a fire threatened area.

The fire itself doesn't have to burn assets to cause interruptions to the grid. Dense smoke from wildfires beneath steel structures have been the source of flashover events





“FIRES START SMALL AND ESCALATE. INDJI WATCH NOTIFIES OUR OPERATORS EARLY SO WE CAN EVALUATE CONTINGENCIES AND COMMUNICATE ACTION PLANS WELL BEFORE EQUIPMENT FAILS OR IS TAKEN OUT OF SERVICE.”

– BRIAN MURRAY, GRID OPERATIONS, CALIFORNIA ISO

between transmission lines causing momentary and sustained outages. In select states like California, proactive de-energizing of lines is now mandated when conditions are ripe for wildfires, so quickly understanding the threat to particular lines is a must.

Indji Watch is a solution built to alleviate these problems. It has become the chosen solution by Grid Operators in fire prone service territories. Through Indji Watch, Transmission System Operators and HP Gas Operators not

only have the ability to see satellite hot spots updated every five minutes, but they can take advantage of Indji Watch’s patented monitoring and alerting system that allows them to receive alerts if the dynamic wildfire is detected within a user selected distance to a particular transmission line. Critical to the expected spread of the wildfire, Indji Watch also alerts operators and response crews to extreme winds and temperatures forecasted to occur in the next 48 hours.

Combined with wind, temperature, precipitation and other forecast data, Indji Watch arms you with real-time wildfire and lightning alerts that are specific to the transmission or gas assets at risk, allowing you to be proactive and make well informed decisions regarding these combined threats. See how Indji Watch can increase your wildfire awareness allowing you to make critical decisions quickly.

The screenshot displays the Indji Watch software interface. On the left, a sidebar titled 'Item Information' lists details for a wildfire event:

Field	Value
Name	Spring Creek
Agency	C&L
Satellite Info Used	False
NIFC Info Used	False
GeoMac Info Used	True
WildCAD Info Used	False
ESRD Info Used	False
Satellite Confidence [%]	0
Size [acres]	107696.461323
Status	
Location	
Type	
Remarks	
First received in Indji	29 Jun 2018, 1:24 PM (GMT-7, PDT)
Last updated in Indji	Yesterday, 10:37 AM (GMT-7, PDT)
Last updated at source	10 Jul 2018, 5:00 PM

The main area shows a map of the region, with a large red area indicating the wildfire's location near La Veta. The map includes labels for various locations such as Malachite, Alamo, Pictou, Cuchara Junction, Mayne, Rugby, Lynn, Delagua, and Reilly Canyon. A scale bar at the bottom right indicates 5 miles and 10 km.

Indji Watch wildfire details in relation to utility assets.