

A photograph of several power lines stretching across a clear blue sky. The lines are dark and appear to be made of metal or steel. A small, dark object is visible on one of the lines, possibly a bird or a piece of equipment. The background is a solid, bright blue sky.

# High Impedance Detection

Distributed Intelligence

Early and real-time identification of low-voltage distribution hot spots saves time, money and keeps your customers safe.

High Impedance Detection is the detection and identification of high impedance connections or “hot spots” anywhere in the LV distribution network. These can occur at any connection point in the LV distribution network, including at the meter and socket, and result in voltage complaints, connection failures and even fire in some cases.

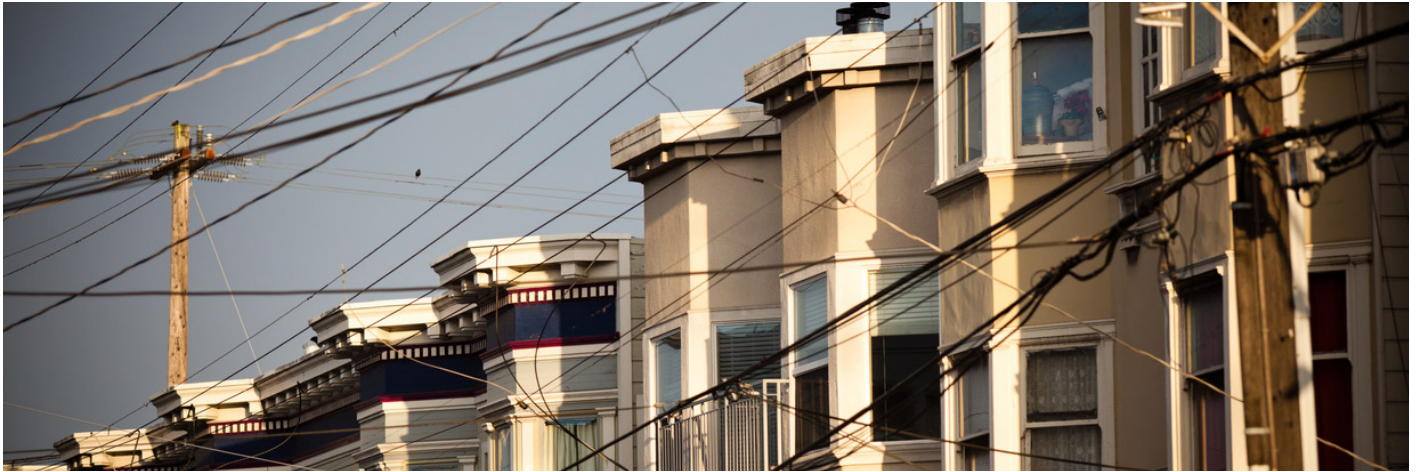
## WHAT DOES IT DO?

Using the power of the Itron Network and Distributed Intelligence platforms, High Impedance Detection provides near-real-time alerts to the utility to save money and time while increasing customer safety.

## The Value of High Impedance Detection

A highly accurate, near-real-time monitoring system working around the clock helps:

- » Ensure service is done when needed, and before some problems grow into more expensive and potentially dangerous ones
- » Deliver necessary accuracy and confidence levels
- » Enhance customer safety
- » Improve business operations



These alerts are sent to an Itron application for viewing, prioritization and action at the utility's discretion. APIs are also available for integration directly into utility workflow and other systems. This unprecedented visibility into connectivity enables Itron to unlock tremendous new value in grid safety and operations, bringing new capabilities to the Active Grid via entirely new applications that previously didn't exist—all while performing analysis on high-frequency data to deliver the necessary accuracy and confidence levels previously unheard of.

### **CONFIGURATION**

All Distributed Intelligence applications have extensive configurations, allowing Itron personnel to make environmental adjustments as well as algorithm adjustments via a Configuration Change Request SaaS workflow including the utility. Some configuration parameters are exposed to the utility as is needed to allow self-management.



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