



# Meter Bypass Detection

## Distributed Intelligence

Energy loss due to tampering continues to be a major concern for utilities. Offenders continue to become more sophisticated and are illegally diverting more energy than ever. Whether through relatively simple meter tampering or complex diversion schemes, energy diversion is a public safety concern and can have a considerable effect on a utility's bottom line. With Distributed Intelligence, near-real-time detection of meter bypass is capable of approaching 100% accuracy!

The adoption of smart meters has vastly improved utilities' capabilities in minimizing losses and reducing safety issues. New data from smart meters and other devices can indicate suspicious usage patterns, energy diversions and tamper conditions. This data helps pinpoint and resolve the exact cause of energy and water that is distributed and not paid for. However, many revenue protection solutions—whether built internally or provided by third parties—can result in slow, time-consuming and manual processes as well as many false positives and unnecessary truck rolls.

### Value of Meter Bypass Detection

- » Eliminate time and costs for false positive investigations
- » Detect and report meter bypass rapidly
- » Recover revenue
- » Improve accuracy
- » Ensure real-time edge intelligence to support the investigation process



### PARTNER WITH ITRON TO REALIZE VALUE

Typical back-office analytic solutions that rely on interval read data and tamper alarms are not always quick to identify accurately and take a higher degree of human intervention and expense to determine if reported energy theft is real or not.

Itron already has a proven, industry-leading solution with its Revenue Assurance offering, and with Distributed Intelligence utilities can add near-real-time detection with up to 300% improvement in accuracy over many purely AMI-based systems.



Figure 1: Track cases from detection through to field work and collection



- » Over 40 million endpoints are analyzed every day using Itron Revenue Assurance across 35 utilities
- » More than 100 analytic methods implemented based on over ten years of field results
- » Offers a complete case-tracking system to support a best-in-class investigation process

Revenue Assurance already has the ability to fine-tune the back-end analytics portion based on field results to ensure the system is perpetually evolving. With the addition of Distributed Intelligence, real-time is part of that evolution.



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