

Utility Revenue Protection

Monitor & identify non-technical losses

SOLUTION BRIEF

Power theft is a challenge that all utilities face from public safety and an economic standpoint. According to the Northeast Group, non-technical losses due to electricity theft, fraud, and billing errors account for \$101.2bn per year globally*. By recognizing and addressing these non-technical losses quickly, utilities can limit the effect on their bottom line and maintain a safer environment for the public and their workers.

Until recently, solutions to combat theft were limited. For example, the burden traditionally fell upon meter readers to visually perform an inspection to recognize instances consumers were stealing electricity. However, with the rise of Advanced Metering Infrastructure, utilities can remotely identify many of these instances.

But what happens if the thief is not an amateur? Recently there has been a spike in energy theft from large-scale users such as marijuana grow-ops or bitcoin mining operations. These knowledgeable thieves will tap into lines and run them underground to their location. This level of ingenuity requires additional oversight beyond the meter to protect revenue. Utilities now need to combine advanced data analytics and grid sensing technology to identify theft.

Using Distribution Transformers to Identify Theft

Ubicquia has developed a revenue protection solution that alerts utilities to theft through active distribution transformer monitoring. The ability to analyze load voltage, load current, and power consumption at the transformer gives utilities the tools to recognize theft while getting a complete picture of the grid.

Ubicquia's revenue protection solution combines the UbiGrid DTM+ (Distribution Transformer Monitor), a robust LTE communications network, and a cloud-based software management platform to form a complete integrated solution.

With Ubicquia's revenue protection solution, you can:

- Quickly pinpoint theft and protect your revenue stream
- Get real-time visibility over a reliable LTE network
- Monitor load and visualize all your transformer assets on an intuitive dashboard interface
- Be alerted when a deviation or anomaly occurs between transformer load and connected load
- Ensure the safety of the public and your utility crews

Bottom Line

Ubicquia's revenue protection provides utilities with substantial economic and safety benefits while meeting critical utility needs. Energy theft is a problem that isn't going away—actively combatting energy theft across your service territory results in significant cost savings.

Utility Revenue Protection Solution:



DTM+ ANALYZES TRANSFORMER DATA



DTM+ TRANSMITS OVER LTE NETWORK



UBIVU DASHBOARD ALERTS UTILITY TO THEFT

*2021 Northeast Group, LLC Electricity Theft and Non-Technical Losses: Global Market, Solutions and Vendors

