



RISING TO THE CHALLENGE

Market forces and new technologies are driving you to transform your operations and business capabilities. An increasingly interactive grid, rising public expectations and accountability, government mandates and faster outage restoration are just some of these factors. Addressing consumer engagement, extreme weather, microgrids and local markets requires optimization of the distribution grid and enhanced information fed into various systems. Itron's Grid Operations outcomes support data intelligence to enable you to develop proactive asset management strategies and optimize your grid. Through a combination of software and services, you are given the tools to gain valuable insight into your operations, maximize asset life, enhance efficiency and improve customer satisfaction.

Transformer Load Monitoring

Changing weather patterns, aging infrastructure and increased adoption of electric vehicles and other technologies are creating new challenges to effectively manage your distribution assets. Transformer Load Monitoring utilizes smart meter data from AMI meters along with weather information to calculate distribution transformer loading and its effect on asset longevity at a scale and accuracy never before possible. Loss-of-life calculations assist your planners in effectively allocating capital for proactive transformer replacement where necessary.

- » Receive alerts to newly overloaded transformers so you can take action before damage occurs or customers are impacted
- » Identify over-utilized, under-utilized and at-risk transformers
- » Assess unanticipated load increases that may result in asset failure
- » Evaluate transformer sizing for new loads using measured load history during peak seasonal loads

Grid Connectivity

Grid Connectivity uses machine learning and AMI meter voltage data to determine meter-to-transformer connections and phase identification. Accurate and up-to-date connectivity data is essential for efficient outage management, system planning, load flow calculations, phase balancing and many other critical grid management operations.

This analysis runs seamlessly in the back office to continually detect when new customers come online, crews perform maintenance and proactive activities like phase balancing and feeder reconfigurations occur. Results are compared to a utility's systems of record so inaccuracies are identified and can be corrected.

- » Improve your load forecasting capabilities with accurate connectivity models
- » Optimize asset utilization and extend asset life
- » Improve outage response and restoration time improve SAIDI/SAIFI/CAIFI
- » Improve many outcomes, such as outage and theft detection
- » Reduce technical loss by phase balancing



FAST DEPLOYMENT AND TIME TO VALUE

Grid Operations applications are offered as Software as a Service (SaaS) utilizing the Microsoft Azure cloud platform. Itron's SaaS-based approach helps you realize value quickly and, at the same time, supports scaling deployments at a pace that is comfortable.

END-TO-END ACTIVE GRID SOLUTION

Grid Operations applications are pre-integrated with Itron's market-leading smart grid solutions to reduce risk, lower implementation costs and provide faster time to value. With this integration, Itron provides you with a complete smart grid solution including meters, sensors, networking, data collection, data management and consulting services—to ultimately solve your business challenges and deliver value-based outcomes.

Grid Operations applications also include data integration adapters which integrate to third-party systems such as GIS, workforce management, CIS systems and third-party AMI and MDM systems.

FOCUS ON CONTINUING INNOVATION

We strongly believe that analytics is a key component to extending the value of smart metering and smart grids. Itron is making significant investments in research and development to discover and productize new analytics use cases and algorithms. By leveraging our Grid Operations applications, you will benefit from this continuous investment in innovation.

ENSURE GRID RELIABILITY & RESILIENCY

You are now faced with more rapid change and increased expectations than before. The grid is more participatory (two-way), there are ongoing increases in the reliability, service and engagement level that customers expect, and regulators have high expectations that utilities will meet those mandates.

Itron's years of industry insight and experience, combined with our Grid Operations applications, will provide you with the cutting-edge analytic capabilities of today and prepare you for the emerging priorities of tomorrow. We enable you to realize the full value of your smart grid.





Join us in creating a more **resourceful world**.

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