



Southwire®
WE DELIVER POWER... RESPONSIBLY

VOLATILE RESILIENT

INNOVATION//RELIABILITY//RESILIENCE//SUSTAINABILITY//

CHALLENGE

Consumers are demanding high availability and reliability (CEMI). Utilities are faced with aging infrastructure as O&M dollars are contracting.

SOLUTION

Grid Modernization and Network Optimization decision making based on cost justification and proven benefits (results).

Leverage your data, industry data, and "Best Practices" with AI to execute the most effective & efficient Grid Resiliency strategy

An IOU had been faced with dwindling O&M budgets while the aging infrastructure continued to be stressed as customers demands for reliability increased.

To maximize the customer's O&M and CAPEX budgets, Southwire performed an initial 30-day Grid Resiliency Assessment, followed by ongoing analyses, including Benefits Achieved Analysis. Overall, the Utility reduced CMI by 47%, including improvements in SAIDI, SAIFI, CAIDI, CEMI, and outage durations.

We have seen similar results across multiple IOUs, Cooperatives, and Municipalities. One Municipality experienced a 15 to 1 improvement on outages based on our Grid Modernization recommendations. Another Cooperative used our data to optimize their network through phase balancing, fuse coordination, segmentation, and transformer sizing. Through this enhancement, they also saw improvements in performance indices.

HOW THE PROGRAM WORKS

Utility provides Southwire with its current GIS data, 5 Years of OMS Data, optionally, vegetation, inspection, and AMI data.

- Southwire runs the data through our Data Integrity module to validate and cleanse data
- A Connectivity Model is generated with Device Criticality and Impact
- Data is loaded into Southwire's Utility Information Model
- AI and ML Models process the structured and unstructured data. Once complete, the data is transformed into the Solution Suite.

- Recommendations are made based on:



Historical data, Failure/cause analysis, Best practices, and Locational intelligence



Recommendations include: Equipment Modernization, Network Optimization, and Asset Maintenance

- Expected & Actual Benefits Achieved are presented as "actions" are implemented
 - Benefits are measured by CMI, SAIDI, SAIFI, Cost Savings, CEMI, and other 1366 indices.

GRID MODERNIZATION



NETWORK RELIABILITY



NETWORK OPTIMIZATION



NETWORK REMEDIES



BENEFITS ACHIEVED



AMI ANALYTICS



ASSET PERFORMANCE



For more information on Digital Grid Resiliency Solutions, scan our QR code