



# Harnessing the Cloud for Mission-Critical Operations

Clark County REMC Optimizes Operations Technology (OT) with  
AspenTech® Digital Grid Management (DGM) Solution in the AWS Cloud

"By moving to a hosted system, we can all focus more on business operations rather than day-to-day maintenance tasks which improves our efficiency and allows the team to concentrate on strategic initiatives."

—Nash Summers,  
Manager of Operations & Engineering,  
Clark County Rural Electric Membership Corporation (CCREMC)

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## CHALLENGE

Clark County REMC (CCREMC) needed to modernize operations to serve growing member base while managing limited IT resources, upfront hardware costs, and infrastructure demands.

## SOLUTION

**AspenTech OSI monarch SCADA™** hosted in AWS cloud environment with managed services, providing scalable grid management without hardware investment.

## VALUE CREATED

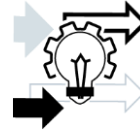
With enhanced grid visibility and operational intelligence, CCREMC was able to transform their operations and member service. Key outcomes include:

- **Outage response time improved** and system issues can be addressed much faster.
- **IT/OT collaboration improved**, optimizing limited human resources.
- **Cost per consumer decreased**, easing financial pressure while enabling scale.
- **Member satisfaction increased**, driven by faster, more reliable service.



## The Challenge

CCREMC, an Electric Cooperative serving 25,400 members in southeast Indiana, recognized the need to adapt and scale to meet its growing member base and infrastructure demands. CCREMC leadership knew that modernizing its operations could be the solution – but up-front hardware costs, updates to server and network capacity and limited staffing were significant challenges. They soon landed on a promising approach: A cloud-hosted Supervisory Control and Data Acquisition (SCADA) solution that would provide improved visibility into the grid and enable faster decision-making during outages and other incidents.



## The Solution

After evaluating several options, CCREMC selected AspenTech OSI monarch SCADA, a solution that can be tailored for any size utility. “AspenTech is widely trusted in the generation and transmission market out West, so I felt confident in its capability to handle our distribution system reliably,” said Nash Summers, Manager of Operations & Engineering, CCREMC.

To support scalability and reduce IT overhead, the co-op deployed the SCADA solution in a managed AWS cloud environment instead of using an on-prem solution. This approach provided robust cybersecurity while minimizing the need for internal resources for maintenance and updates. “Cloud hosting offloads many of our IT demands and enables our limited staff to focus on other critical systems and manage their workload more effectively,” added Summers.







# Advanced features fuel flexibility and scalability in utility operations

AspenTech OSI monarch SCADA includes an advanced user interface that can be found in the control rooms of many of the largest utilities around the world. It's configured for flexibility and modularity for electric, gas and water utilities – enabling operations in grid management, renewable management and microgrids.

“Deploying operations technology on the cloud is a great option for distribution utilities to save on upfront hardware costs and reduce demands on in-house IT staff,” said Lance Hovland, AspenTech Senior Manager, Power & Utilities Industry Business Unit (IBU). “The cloud-hosted SCADA system has allowed CCREMC to leverage these efficiencies in applying the AspenTech DGM solution to enhance their performance in reliability, operational efficiency and member service.”



## Better decision making and collaboration increase operational efficiency

The AspenTech implementation has provided CCREMC with the necessary visibility to improve a wide range of operations. Data-fueled decision-making has led to swifter decisions during incidents and better resource management, reducing the need for multiple crews.

In a recent incident, the team was able to find, investigate and address a voltage issue experienced by its three-phase member – shaving pre-SCADA response times from 60 minutes to 15 minutes. These improvements translated into measurable cost savings and enhanced member satisfaction.

The hosted model has also improved coordination among IT, finance and member services teams, enabling more agile planning and resource allocation. In recent years, the team has been able to do more with the same small staff to achieve measurable results: Managing an increased number of major events, maintaining almost 200 miles more line, and increasing its member base. It has also enabled meaningful scale: CCREMC added four substations in one year and two substations in another.

“Despite being different departments on paper, the IT and OT teams work together to ensure seamless service delivery,” said Kevin Kastensmidt, IT Manager, CCREMC.

Securing buy-in from the field was essential to drive adoption and trust in the new approach. Leadership conducted hands-on training in the warehouse using live devices to simulate real-time interactions between dispatch and field crews. This engagement ensured the field teams were confident in using the system for safe and efficient operations.





## Strategic alignment and sustainability

This transformation aligns with CCREMC's broader business strategy supporting long-term resilience and member satisfaction. By modernizing its infrastructure through a hosted SCADA model, the cooperative is better positioned to scale, innovate and serve its members reliably.

"We're continuously working to transform our use of technology and data for growth and efficiency – ultimately to serve our members better," said Summers. "Implementing the cloud-hosted AspenTech OSI SCADA solution has been critical to sustaining our growth."





## About the customer

Clark County Rural Electric Membership Corporation (CCREMC), incorporated in 1939, is a member-owned electric cooperative providing service to members living in Clark, Floyd, Scott, Jefferson and Washington counties in southern Indiana. Currently they provide service to 25,400 members over 1,793 miles of energized lines. CCREMC is on a mission to efficiently deliver safe, reliable electric service to their members.



## About Aspen Technology

Aspen Technology, now part of Emerson, is a global software leader helping industries at the forefront of the world's dual challenge meet the increasing demand for resources from a rapidly growing population in a profitable and sustainable manner. AspenTech solutions address complex environments where it is critical to optimize the asset design, operation and maintenance lifecycle. Through our unique combination of deep domain expertise and innovation, customers in asset-intensive industries can run their assets safer, greener, longer and faster to improve their operational excellence.

[aspentech.com](https://www.aspentech.com)

## About AWS

Amazon Web Services has been providing world-leading cloud technologies that help any organization and any individual build solutions to transform industries, communities, and lives for the better. As part of Amazon, AWS strives to be Earth's most customer-centric company. AWS works backwards from their customers' problems to provide them with cloud infrastructure that meets their needs, so they can reinvent continuously and push through barriers of what people thought was possible.

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- IoT Software/Hardware Competency
- Manufacturing and Industrial Software Competency

