FMP ALLIANCE

Newsletter

Welcome Note

From the Alliance Leadership

Welcome to the latest update from the FMP Alliance community, where we're working together to make power distribution safer, simpler, and more scalable for the modern built environment.

Across industries, digital systems are moving closer to the point of need — inside IDFs, corridors, ceilings, and edge spaces that were never designed to host today's power and uptime requirements. The result is a growing gap between what the edge demands and what conventional distribution makes easy.

Fault Managed Power helps close that gap by enabling repeatable power architectures that can expand faster, reduce site disruption, and support smarter operations where it matters most: at the edge.

ALLIANCE HIGHLIGHTS

Online Clinic Update

The FMP Alliance Online Clinic series continues to play a key role in translating Fault Managed Power from theory into practice.

The recent session focused on:

- Clarifying how Class 4 systems function within NEC Article 726
- Walking through real-world installation scenarios
- Addressing common questions from designers, contractors, and inspectors
- Reinforcing how FMP supports safer work practices while simplifying deployment

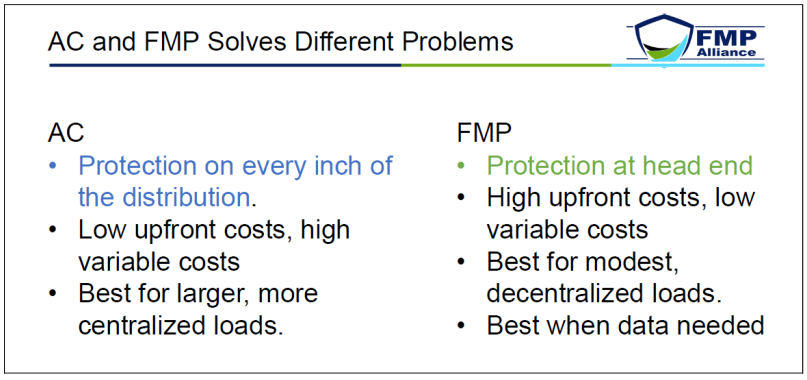
The response reinforces a consistent theme: when professionals understand how Fault Managed Power works and where it fits, adoption accelerates. Education is about enabling confident decision-making in the field.

Highlights from the clinic:

Community education has expanded through the Online Clinic series, helping members deepen understanding of customer pain, ground decisions in data, and sharpen judgment on where FMP is (and is not) the right fit.

Common edge use cases are becoming clearer and more repeatable, including fulfillment centers, smart campuses, and transportation infrastructure—three environments where edge locations routinely lack convenient power pathways.

Cost and labor comparisons are becoming more decision-grade, using bill of materials and unit labor assumptions to compare conventional approaches vs. integrated FMP architectures for real-world deployments.



EDUCATION

Trends Shaping Power Distribution

The Edge is Becoming the New Center of Gravity

Compute, connectivity, and intelligence are moving closer to where data is created. Edge computing—driven by AI inference, IoT, 5G, and real-time applications—is accelerating the deployment of distributed infrastructure in facilities never designed for dense digital loads. Industry analysts expect edge facilities and edge nodes to grow faster than centralized environments over the next several years.

This shift increases the number of locations that require reliable power, often in spaces with limited access to traditional electrical infrastructure.

Electricity Demand is Rising

After years of relatively flat electricity demand, the industry has entered a new growth cycle. Electrification of buildings and transportation, combined with AI-driven data center expansion and onshoring of manufacturing, is driving sustained increases in power demand across North America. Analysts project this growth to continue through the end of the decade, fundamentally changing how power infrastructure is planned and deployed.

Power Availability and Speed to Deployment Are Now Strategic Constraints

Across commercial buildings, industrial sites, and data centers, power availability has overtaken location as a primary constraint on project timelines. Grid interconnection delays, long lead times for transformers, and extended permitting cycles are stretching schedules by months—or years—in some regions.

As a result, project teams are prioritizing architectures that reduce dependency on heavy electrical infrastructure and compress on-site timelines.

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Labor Shortages Are Reshaping How Power Gets Installed

The availability of skilled electrical labor has become one of the most significant bottlenecks in construction and infrastructure projects. The data center sector alone is facing a shortfall of tens of thousands of electricians and power specialists, with similar pressures felt across commercial and industrial construction.

This labor reality is pushing owners and contractors toward solutions that reduce labor intensity, limit specialized trade requirements, and shorten time on site.

Codes Are Catching Up to Modern Power and Communications Systems

Recent updates to the National Electrical Code reflect how much the industry has changed. The introduction of Class 4 Fault-Managed Power and the restructuring of limited-energy and communications requirements signal a broader shift toward clearer, more unified frameworks for modern power and data systems.

These changes are helping reduce ambiguity between power and communications domains and giving the industry a clearer path to deploy higher-power systems safely.

Reliability Is Being Designed In—Not Added On

With uptime now mission-critical across logistics, healthcare, transportation, and digital infrastructure, reliability is no longer treated as an afterthought. Industry trends point toward centralized backup strategies, fewer distributed points of failure, and power systems that actively monitor and respond to faults rather than relying solely on passive protection.

LOOK FOR US AT UPCOMING EVENTS

Cisco Live
May 31-June 4, 2026 – Las Vegas, NV

TIA Event
June 2, 2026 – Madison, WI

ISE Expo
Aug 18-20, 2026 – Nashville, TN

BICSI Fall
Aug 30-Sept2, 2026 – Las Vegas, NV

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FMP Alliance

Our mission is to drive the global transition to reliable, safe and sustainable fault managed power technology.

Non-profit Organizations

CASE STUDY

Large Scale Manufacturer Delivers Continuous Power with FMP

Introduction

Live production environments leave no room for disruption. In manufacturing environments, where production schedules are tightly coordinated, power infrastructure must deliver reliability and safety without disrupting operations. For this manufacturer, operating live production across multiple buildings, modernizing power delivery required an approach that could improve visibility and system integrity while keeping every line running.

PROJECT OVERVIEW

Operating across multiple buildings and 22 remote production locations, each requiring reliable power for Brownfield Live Production switches and UPS systems. Traditional power approaches would have introduced unacceptable risk: production shutdowns, safety concerns, and complex changeovers that could only occur during narrow lunch-hour maintenance windows.

The Facility - Large Manufacturing Facility

- Multi-building manufacturing environment (1.8 million sq ft on main campus)
- 22 remote production locations
- Continuous, live production operations while changing production lines

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The Challenge: Power, Safety, and Zero Downtime

Each remote location relied on a dedicated UPS enclosure positioned directly on the production floor. This created several operational and safety challenges. Traditional power architectures would have increased operational risk and safety exposure. The manufacturer required a solution designed for live manufacturing environments—one that could be deployed without interrupting production.

Key Challenges

- **Limited changeover windows**—only 25 minutes during scheduled lunch breaks
- **High-voltage exposure**, with 440V AC present on the production floor
- **Multiple power conversions,** including step-down transformers to support 110V outlets
- **Operational complexity**, with separate UPS systems requiring maintenance and monitoring at each location

Despite these constraints, the objective remained clear**: install and power a modernized infrastructure without disrupting ongoing production.**

The Solution: Centralized Power with FMP

The manufacturer deployed a fault managed power architecture using Panduit Fault Managed Power System (FMPS) technology to centralize power delivery while safely extending power to remote production locations.

The deployment included:

- Centralized UPS systems located at the headend
- Long-distance, safe power delivery using Class 4 fault managed power
- Removal of both high-voltage and low-voltage AC power blocks from the production floor
- Remote monitoring and control, enabled through the Panduit FMPS platform

By centralizing power and reducing conversion points, the new architecture simplified the overall system while aligning with the demands of continuous manufacturing.

The Results: Safer Operations, Simplified Power, No Production Impact

Safer operations, improved visibility, and uninterrupted production. The solution was installed without disrupting live production, delivering immediate benefits:

- Elimination of UPS units at all 22 remote production locations
- Improved safety by removing high-voltage AC from the manufacturing floor
- Increased system integrity through centralized power delivery
- Remote power monitoring and control, enabling faster response and better oversight

Today, the manufacturer can monitor power across production areas without physical access, supporting safer operations and greater operational confidence.

Why It Matters: Powering Production Without Compromise

This deployment demonstrates how fault managed power, implemented through solutions like Panduit FMPS, supports modern manufacturing needs. By enabling safer power delivery, centralized control, and improved visibility without sacrificing uptime, Class 4 power provides manufacturers with a practical path to modernizing infrastructure while protecting productivity.

Fault Managed Power: supporting safer, more resilient manufacturing environments.

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INDUSTRY TRENDS & NEWS

What's Happening in Fault Managed Power

2026 Quarterly Codes & Standards Update

NECA NEIS 726 has published

NECA, the National Electrical Contractors Association, has published their new document NECA NEIS 726, "Standard for Installing and Maintaining Class 4 Fault Managed Power (FMP) Systems." The scope of the document is implementation of FMP technology defined in Article 726 of the NFPA-70, the National Electrical Code. NECA 726 is designed for electrical professionals dealing with high-efficiency digital building infrastructure. The FMP Alliance is honored to have several member company technologists on the NECA Consensus Panel that wrote and edited this new standard.

NFPA-70 2029 National Electrical Code Cycle Update

Work is underway on the 2029 version of NFPA-70, the National Electrical Code. The Code follows a rigorous process that results in a vetted and reliable Code document every 3 years. Much of the 2029 work revolves around completing the Limited Energy reorganization begun in the 2026 Code. The first phase of the process, called Public Input (PI), where the NFPA accepts suggested changes to the current NEC, just closed on 09Apr2026. Most of the summer months are consumed processing and organizing these PIs for discussion and disposition by the CMPs (Code Making Panels). The CMPs meet in Torrance, CA to ballot the PIs in late September/early October of this year.

NEW MEMBER SPOTLIGHT

We are honored to welcome the following new members to FMP Alliance.

MEMBER	LEVEL	JOINED
Eaton	Contributing	Jan 7, 2026
PoEWit Technologies Inc	Observer	Dec 22, 2025