Innovation & Engineering Excellence Report

Overview

This report highlights Spike's commitment to innovation, modular engineering, and cross-functional collaboration. It outlines recent patents, modular product advancements, R&D milestones, and customer success stories that illustrate the impact of Spike's solutions across mission-critical industries. The report also lists core product offerings and demonstrates how Spike continues to deliver high-performance, application-specific solutions that align with its values of faith-based leadership, innovation, and operational excellence.

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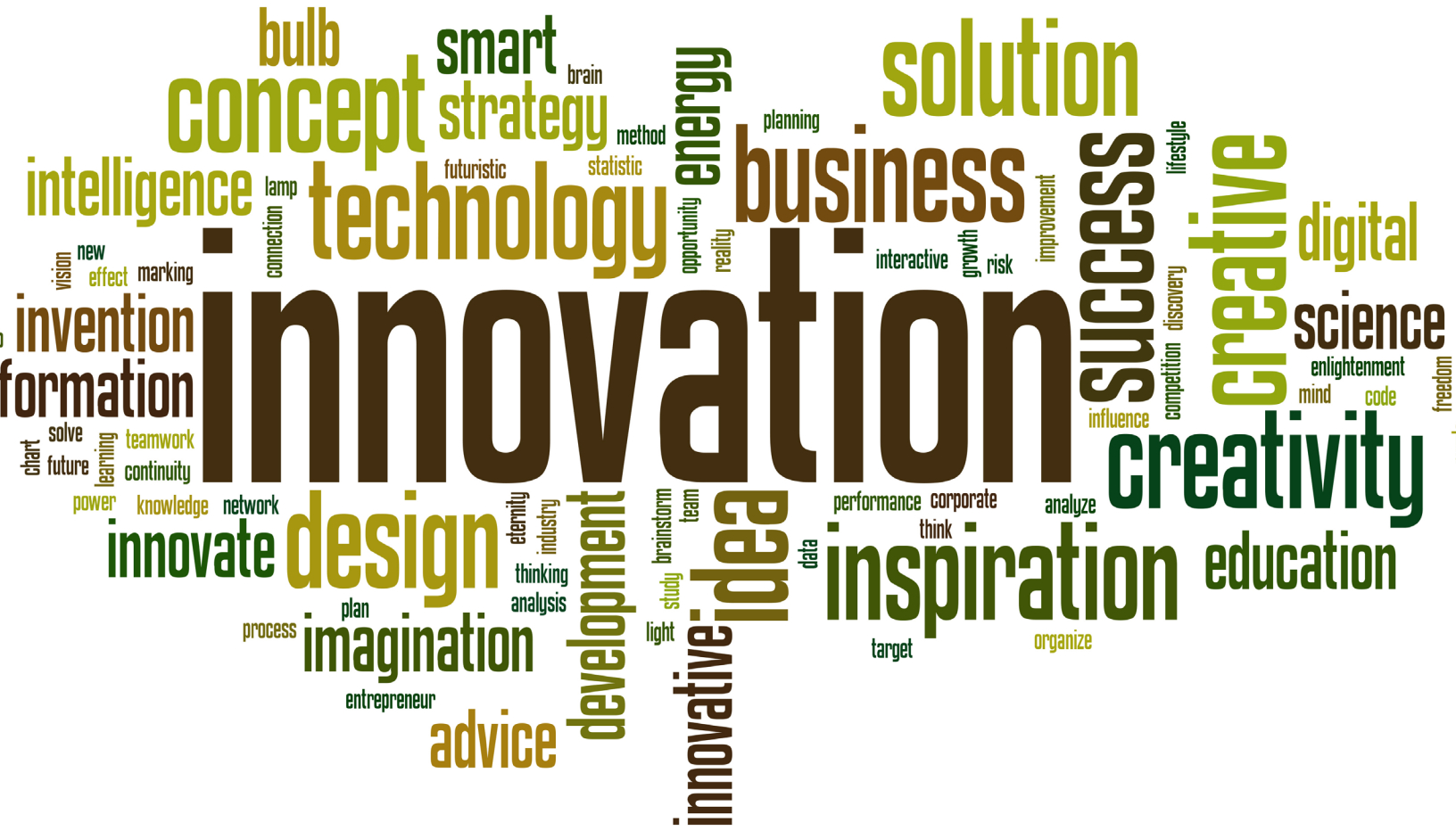


Engineering Innovation and Recent Patents

Spike continues to strengthen its reputation as a leader in engineering innovation. In 2025, the company secured several patents related to advanced arc-resistant switchgear systems, modular motor control center design, and AI-driven diagnostics for power distribution equipment. These patents demonstrate Spike's ability to engineer solutions that not only meet customer needs but also advance industry-wide safety and reliability standards.

Our modular engineering platforms enable rapid customization for data center, energy, petrochemical, and utility clients, while ensuring scalability and reduced lifecycle costs. This innovation-first mindset allows us to serve clients operating in highly demanding environments.

Research, Development, and Cross-Functional Collaboration

Spike's R&D team operates at the intersection of technology, sustainability, and customer application needs. Key milestones in 2025 include developing a new generation of explosion-proof switch racks and expanding the use of gas-insulated switchgear technologies to minimize footprint while increasing reliability.

Collaboration across design, engineering, and customer service teams ensures that solutions are tested, validated, and optimized in real-world environments. These partnerships strengthen customer confidence and enable continuous improvement across all product lines.

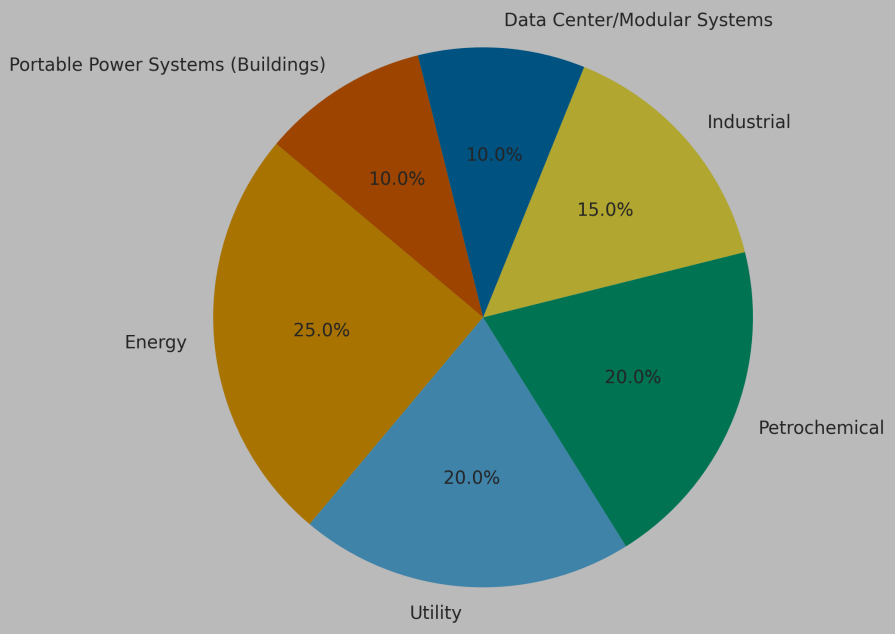
Core Product Offerings

Spike's product portfolio reflects decades of innovation and expertise in power distribution systems. Core offerings include:

- Low And Medium Voltage Switchgear
- Motor Control Centers
- Arc Resistant Switchgear
- Gas Insulated Switchgear
- Explosion-Proof Switch Racks
- Integrated Power Distribution Systems
- Shelter Mounted Power System

Each product line is engineered with mission-critical demands in mind, ensuring safety, reliability, and compliance with ISO, UL, IECEx, and ATEX certifications. Customers in energy, utility, petrochemical, and industrial sectors rely on these solutions to maintain uptime and operational resilience.

Spike Product Deployment by Sector



Customer Success Stories

Spike's engineering excellence is best illustrated through customer outcomes. In 2025, a major utility client deployed Spike's modular arc-resistant switchgear to modernize a critical substation. The solution improved system safety, reduced maintenance downtime by 35 percent, and provided enhanced operator protection.

In the petrochemical sector, a global partner adopted Spike's explosion-proof switch racks to maintain uninterrupted operations in hazardous environments. This deployment not only ensured compliance with international safety standards but also extended system lifespan by more than 15 years.

Future Outlook

Looking ahead, Spike aims to accelerate the integration of AI-driven diagnostics across its product portfolio, expanding modular platforms to address evolving energy transition challenges. The company is committed to engineering solutions that maximize efficiency, sustainability, and resilience for its global client base.

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