

The Value of PowerChain™ Management

Customer:
Innovative Trailer
Design Industries

Markets Served:
Industrial



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PowerChain™ Management helps enterprises achieve a competitive advantage through proactive management of the power system as a strategic, integrated asset throughout its lifecycle.

-  Enhanced Safety
-  Greater Reliability
-  Operating Cost Efficiencies
-  Effective Use of Capital
-  Risk Mitigation

To learn more, contact:

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The flexibility and innovative design of IFS™ switchgear significantly enhances Eaton's PowerChain Management Solutions. Key benefits of this total solution concept include:

-  **Greater reliability** — Maintain vital operations with steady, high-quality power every minute of every day.
-  **Effective use of capital** — Put your capital to work faster, and keep it working longer, with electrical designs that require less equipment and space, services that extend equipment life and pre-assembled equipment that can be installed faster.
-  **Risk mitigation** — Reduce the risk of construction delays and cost overruns with a coordinated approach to power system design, procurement, installation and maintenance.

Background

Innovative Trailer Design Industries is a division of Peel Truck & Trailer Equipment located in Mississauga, Ontario. They are recognized in the truck and trailer industry for their knowledge and experience as a full service facility.

Peel Truck & Trailer Equipment is a true one stop shop for fleet repairs while Innovative Trailer Design looks after most of the custom fabrication. Over the years Innovative Trailer's business has evolved branching out into the custom fabrication and creation of expandable trailers. These are often utilized as mobile facilities for entertainment and promotion or as medical or training facilities.

Challenge

Along with the benefit of being mobile, trailers are burdened with a maximum size limitation dictated by the rules and

regulations of what may be pulled on our streets and highways. Innovative Trailer Design Industries offer a full size trailer that is maximum 53ft long but may be expanded to more than 22ft wide. Even with the expandable capabilities, the available interior space is limited and must house the power generation and electrical distribution system. With limited amount of space available for the electrical services, Benny DeFranco, design engineer at Innovative Trailer Design, approached Eaton to see if there was a way to gain more floor space by shrinking the overall size of the existing electrical equipment used in the trailers while still maintaining the appropriate protection and power capabilities within.



Solution

Loreto Persichetti, a senior Technology Sales Rep at Eaton and Frank Dinis of Aztec Supply met with the design team in Eaton's manufacturing facility in Mississauga, Ontario. The existing electrical service contained separate disconnects, splitters and panelboards scattered across the walls of the trailer. This type of system is quite common in older electrical system designs and the engineering team at Eaton immediately thought of converting the existing layout into one of Eaton's *Integrated Facility Switchboards™* (IFS). This unique solution integrates Cutler-Hammer electrical distribution equipment into one space-saving switchboard structure while maintaining or expanding the available wiring space available for site connections.

Result

By dramatically reducing the space required for the distribution equipment, Innovative trailer Design is now able to offer its customers nearly 1000sqft of space in their expandable mobile trailers. As an added benefit their overall labour and installation costs have decreased through the elimination of interconnecting conduit, wire, trough and fittings.

Working on the design requirements with the Eaton manufacturing team in the early stages of the project produced added value to the final IFS line-up, which often is a critical element in PowerChain Management™ solutions. Functional design and aesthetics minimized the usual myriad of pipe and wire connections for the trailers new downsized electrical system.

Eaton Corporation is a diversified power management company ranked among the largest Fortune 500 companies. The electrical group is Eaton's largest division and is a global leader in electrical control, power distribution, power quality, automation, and monitoring products and services. Eaton's global electrical brands, including Cutler-Hammer, MGE Office Protection Systems, Powerware, Holec, MEM, Santak and Moeller, provide customer-driven PowerChain Management solutions to serve the power system needs of the industrial, institutional, government, utility, commercial, residential, IT, mission critical and OEM markets worldwide.

PowerChain Management solutions help enterprises achieve sustainable and competitive advantages through proactive management of the power system as a strategic, integrated asset throughout its life cycle. With Eaton's distribution, generation and power quality equipment; full-scale engineering services; and information management systems, the power system is positioned to deliver powerful results: greater reliability, operating cost efficiencies, effective use of capital, enhanced safety, and risk mitigation.