



Circa Resort & Casino Las Vegas Case Study

PROJECT OVERVIEW

Using Fault Managed Power, the 35-story, 1.2 million-square-foot Circa Resort & Casino in Las Vegas, NV, reduced construction costs by an estimated \$2-3 million and completed deployment two months ahead of schedule while powering an entire smart-building ecosystem. The builders partnered with [VoltServer](#) and [Belden](#) to power everything from lighting and climate controls to wireless access points and security systems, with savings driven by reductions in conduit, electrical distribution hardware, installation labor, and commissioning time.

CHALLENGE

The \$1 billion project demanded a modern, energy-efficient infrastructure while overcoming several construction hurdles, including:

- Hidden infrastructure was required to preserve the property's architectural design and guest experience
- Construction took place on a constrained downtown site with complex logistics
- COVID-19 restrictions limited onsite personnel and required much of the project to be managed remotely without delaying completion

SOLUTION

Belden and VoltServer partnered closely with the project team to design a comprehensive technology roadmap. The deployment includes:

- Fault Managed Power System (FMPS) cables for lighting, communications and IoT systems
- Single-mode fiber backbone and optical LAN architecture to simplify networking while increasing bandwidth and reducing infrastructure complexity
- Category 6A structured cabling system, fiber connectivity, racks and cabinets supporting AV, security, building management, wireless connectivity and an onsite broadcast facility

RESULTS & IMPACT

\$2–3M

Estimated
construction
savings

2 mos.

Ahead of
schedule

1.2M

Square feet
powered

Circa Resort & Casino demonstrates how FMP can reduce installation costs and accelerate deployment without sacrificing safety or performance. The project has also helped validate FMPS as a viable model for future hospitality developments, with lower anticipated utility costs and room to grow.