

Bearing Manufacturer: Chiller Project

National



Chiller



Process Optimization



Long-Term
Planning



Investment: \$8 Million

Simple Payback: 6.4-years

Project Duration: 8-months

Completion Year: 2024 (Phase 1)
2025 (Phase 2)
2026 (Phase 3)
anticipated late 2026

Tailored Solutions:

Comprehensive, budget-conscious project plan tailored to specific needs, emphasizing functionality and future readiness.

Supply Chain: Leveraged partnership with York Chiller to significantly reduce lead time by six months.

The energy project stands as a testament to proactive energy management and technological advancement. With each phase of the project, this manufacturer moves closer to achieving its goals of enhanced efficiency, reduced environmental impact, and strengthened market leadership.

PROJECT OVERVIEW

A leader in manufacturing engineered bearings and power transmission products has teamed with Veregy to develop and implement a master plan to enhance operational efficiency and sustainability, increase throughput, and reduce energy intensity. The master plan phases infrastructure upgrades to maximize available utility incentives, minimize impacts to operational budgets, and navigate through the supply chain challenges to deliver equipment in a third of the time as our competitors. The initial phases focus on chiller system which is at the end of its useful life. By upgrading the chiller system, the manufacturer will once again have N+1 redundancy, increasing uptime thus boosting production throughput.

PROJECT PHASES

PHASE 1: INITIAL MODERNIZATION

Phase 1, successfully completed, replaced a critical 1450-ton chiller and its associated cooling towers. This upgrade brought back the N+1 redundancy stabilizing production uptime.

PHASE 2: CONTINUING CHILLER REPLACEMENTS

Phase 2 currently in design will replace two additional industrial process chillers. These chillers are integral to maintaining conditions for optimal machinery operation and process throughput.

PHASE 3: COMPREHENSIVE UPGRADES

The final phase will bring about on-site generation, micro-grid controls to provide load shedding and peak shaving to minimize utility spend, allow for preventative and predictive maintenance, and maintain uptime and production goals.

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