



Argosy Casino Energy Efficiency Project Engineer of Record

PROJECT INFORMATION

CONCORD DIVISION

Commercial

PROJECT LOCATION

Kansas City, MO

MARKET

Gaming

SERVICES

Energy Efficiency



PROJECT OVERVIEW

Total Contract Price
\$1,165,680

Rebates and Incentives
\$444,000

Annual Energy Savings
\$396,490

Internal Rate of Return
55%

Investment Recapture
Period 1.8 years

10 Year Positive Cash
Flow \$3,251,218

PROJECT SUMMARY

Casino consisting of a 350 room hotel tower, 100,000 square feet of gaming floor, several restaurants, meeting and convention space. The property is owned by Penn National Gaming from Wyomissing, PA. Several energy efficiency measures were implemented over a 5-year period. The projects included demand-based ventilation controls for the 6 large – 100 ton AAON energy recovery units serving the casino floor with integration into the existing building management system with an analytic web based overlay which uses IA to learn recovery time and new optimum stop and start cycles to greatly reduce energy costs. Also, more than 15,000 Philips LED lights were installed which received a very large KCP&L incentive.

Concord Engineering and Rich Energy Solutions have completed more than 30 casino energy retrofit projects for Penn National Gaming across the US.

ENERGY EFFICIENCY OVERVIEW

- Total Completed Contracts: \$22,306,660
- Rebates and Incentives: \$3,373,612
- Annual Energy Savings: \$7,616,563
- Internal Rate of Return: 40%
- Investment Recapture Period: 2.5 Years
- 10 Year Positive Cas Flow: \$56,601,125