

POTAWATOMI BINGO CASINO MILWAUKEE, WISCONSIN

KEY PARAMETERS

- Type of Facility – Existing (EB)
- Function – Hospitality/Gaming
- Area – 780,000sf
- Project Completed – 2008

Challenge: Protect heat wheels. In early 2006, Potawatomi Bingo Casino chose Dynamic Air Cleaners to protect heat wheels in the facility heat recovery ventilation system. Tars from tobacco smoke in the exhaust air had the potential of transferring residual smoke odors to the incoming fresh air. Potawatomi was looking at a very costly proposition to clean or replace heat wheels every few years.



Solution: Dynamic V-Bank Air Cleaners were retrofitted into six large 40,000 cfm returns upstream of the heat wheels.

Results: Several months after the air cleaners were installed, the heat wheels were visually inspected. Not only were they clean, but there was an absence of residual odor on the fresh air side of the system.

The air cleaners worked so well that Dynamic was specified on a subsequent \$240 million expansion completed in 2008. The project included additional gaming space, restaurants, bar, and a 500-seat theater, making the facility the largest Indian casino in the world.



The Forest County Potawatomi have tremendous respect for the earth and its resources. A state-of-the-art energy management system constantly monitors energy performance, temperature and air quality throughout the facility. The casino uses 12.5% less energy per square foot than pre-expansion. Through numerous initiatives to reduce energy consumption the Potawatomi Casino has realized energy savings of 5,000,000 kWh/yr, or about 5000 tons CO₂/year.

Dynamic Air Cleaners not only helped to reduce fan horsepower and conserve energy, but the air cleaner media pads have a much smaller footprint and longer maintenance intervals than equivalent conventional passive filters.

TEAM

- Owner – Forest County Potawatomi Community
- Architects – Hnedak BoBo Group
- Mechanicals – Grunau Co., P.L. Freeman Co.
- Consultants – Alliance Partners, LLC
- General Contractor – Gilbane Building Company
- In-house Facilities Contact – Dave Emmerich, Assistant Director of Facilities

MECHANICAL SYSTEMS

- HVAC – Haakon, McQuay
- Ventilation – SEMCO

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