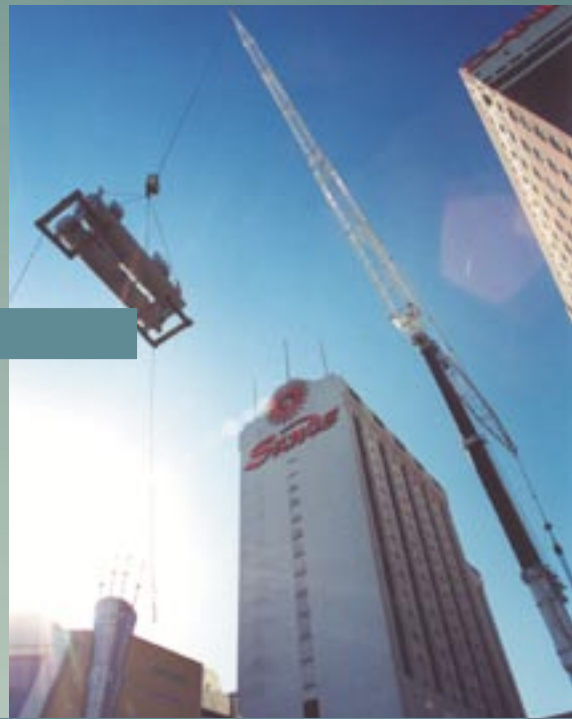


Sands Casino Hotel



Background

The casino-hotel's owner was seeking an optimal solution to aging central plant equipment. The central chilling equipment had exceeded its useful life and its units were failing. In addition, rising energy costs made improving energy efficiency a key concern.

Sands Casino Hotel, Atlantic City, NJ.

Sands Casino Hotel, Atlantic City. Sands Casino Hotel is one of the smaller, more intimate gaming establishments on the island. Sited on prime beachfront property, the hotel tower rises 22 stories above the main gaming floor. The facility boasts a multi-level casino floor comprising 233,000 square feet and over 500 hotel rooms incorporating over 300,000 square feet of space. The lighting in this 2.5 million square foot structure represented an excellent opportunity to dramatically cut electric costs.

Profile

Application

South Jersey Energy implemented a turnkey package to address the aging chilling plant and to maximize energy savings. With the peak summer season three months away, two of the four existing chillers were non-functioning while the remaining two chillers were insufficient to cool the facility. Working on an expedited schedule, three new 55-ton McQuay chillers as well as new rooftop cooling towers were installed prior to the summer season. The new chillers are high-efficiency electric centrifugals rated at .57 kw per ton. SJE's energy analysis also recommended converting the existing lighting, which represents a significant operating cost in this 24-hour facility, to a more efficient T8 type. The lighting retrofit included the hotel tower, all areas of the casino gaming floor (back of House), the Jefferson office tower, and the parking garage. In total, over 9,700 lighting fixtures were retrofit for significant energy savings.

The casino's owner is very pleased with the outcome. The chiller project was completed on schedule, providing for uninterrupted cooling during the summer season. The chillers combined with the new towers reduced electric cost by \$250,000 per year. Lighting retrofits contributed an added \$400,000 in annual savings. Overall, the improvements reduced electric usage by over five million kwhs annually. Additionally, SJE designs ensured that all equipment complied with NJ Clean Energy Efficiency program and resulted in over \$100,000 in rebates.

Results

Contact

South Jersey Energy
1 South Jersey Plaza, Folsom, NJ 08037
1-800-266-6020



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Application

South Jersey Energy implemented a turnkey package to address the aging chilling plant and to maximize energy savings. With the peak summer season three months away, two of the four existing chillers were non-functioning while the remaining two chillers were insufficient to cool the facility. Working on an expedited schedule, three new 550-ton McQuay chillers as well as new rooftop cooling towers were installed prior to the summer season. The new chillers are high-efficiency electric centrifugals rated at .57 kw per ton. SJE's energy analysis also recommended converting the existing lighting, which represents a significant operating cost in this 24-hour facility, to a more efficient T8 type. The lighting retrofit included over 9,700 lighting fixtures which were retrofit or replaced for significant energy savings.

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