



ENERGY EFFICIENCY CASE STUDY SUMMARY:

CLIENT: 7 Clans First Council Casino Newkirk, OK

PROJECT BACKGROUND

7 Clans First Council Casino, in Newkirk OK, has typical summer temperatures of 110°F or higher. The units are all DX package style with exposed ductwork on the outside of the building. High temperatures and solar heat gain on the systems cause the systems to not be able to meet required indoor temperatures and the energy usage is extremely high.

SOLUTION

7 Clans contracted with Optimize to have us install our **KW Guard** dual coating solution to provide the best heat transfer efficiency and remove solar load from the units, allowing them to meet the cooling loads of a casino that operates 24/7.

RESULTS

The external duct and metal cabinet temperatures have been reduced 40 to 50°F. The HVAC systems are able to keep up with the cooling requirements during peak loads and cycle off as designed. The life cycle of the systems will be extended due to less wear and tear and not having to run at constant peak capacity most of the time. The customer is also experiencing a reduction in energy consumption of greater than 20%, while providing their customers with a pleasant and comfortable environment inside of the casino.

The actual utility bills received since our installation demonstrate that 7 Clans now saves 26% on their HVAC cooling cost!

