



sports arenas

Case Study

nothing but net



LED high bay fixtures sub for HID lighting, saving Dee Events Center 70% in energy use

Weber State University expected to save nearly \$40,000 each year

THE SITUATION

When assessing a potential energy-saving project, the Weber State University Energy & Sustainability Office looks at other institutions' solutions for ideas. But there were no examples to consider when an analysis of campus energy use revealed that HID lighting at the Dee Events Center in Ogden, Utah, was one of the single biggest power hogs.

THE SOLUTION

After considerable analysis of its use in this unique setting, 80 LED high bay lighting fixtures were installed, replacing 100 HID fixtures.

The new LED high bay lighting produces more than 200 foot candles, or the amount of light that falls on a given surface—double that of NCAA requirements for courts. In addition to considerable energy savings, and increases the ability for special effects because the LEDs instantly illuminate and can be dimmable and adjustable in nine zones throughout the arena.

The LED fixtures also significantly diminish maintenance needs in difficult-to-reach areas, including those at arenas where swapping bulbs requires special equipment and trained personnel.



OPERATING IMPACT

- 70% savings in annual energy use
- \$40,000 savings in annual energy costs



ENVIRONMENTAL IMPACT

328,000 fewer kWh used:
 = 44 cars off the road
 = 63 acres of trees planted

