ANHEUSER BUSCH
200 US Highway One
Newark, New Jersey

FACILITY DESCRIPTION
Brewery, Warehouse & Offices

HOURS OF OPERATION
3000-8760 per year

TOTAL KWH REDUCTION
2,145,506 kwh per year

ANNUAL ENERGY SAVINGS
$125,000.00

RETROFIT DESCRIPTION
Ballasts, lamps retrofit, new H.I.D. fixtures, compact fluorescent retrofit, and L.E.D. exit signs.

ANHEUSER BUSCH RECEIVES NEW UPDATED LIGHTING SYSTEM

Relighting for energy conservation

The Anheuser Busch brewery in Newark, NJ includes brewing, filling, packaging, warehousing, office and distribution operations. A long time proponent of efficient lighting, Anheuser Busch had been converting inefficient mercury and fluorescent lighting to high pressure sodium throughout the plant, but a good portion of the facility remained undone, awaiting for capital funding. The PSE&G DSM Program proved to be the catalyst enabling Anheuser Busch to complete a comprehensive retrofit project, providing and energy reduction of 280 Kw.

H.I.D. LIGHTING

Anheuser Busch has always believed in purchasing a quality light fixture that is energy efficient, but will also withstand the washdown conditions found in a brewery. For that reason, Holophane Bantam Enduralumes and Prismalumes were utilized in production, filling and warehouse areas. 100-watt and 250-watt high pressure sodium lamps were used in most areas to maximize energy savings, with 175-watt and 400-watt metal halide fixtures utilized in areas that were color sensitive. Optically, the fixtures far out-performed the existing fixtures, improving overall and vertical light levels.

Enclosed and gasketed fixtures designed for wet locations keep moisture out, and are easy to clean, reducing light loses and depreciation. Dramatic maintenance savings were also realized in the brewing area, where the replacement of incandescent fixtures increased lamp life from 750 hours to 24,000 hours! This conversion to HID lighting from the existing incandescent and fluorescent fixtures resulted in a total reduction in fixtures on this project from 1,639 initially to 538 at completion.

FLUORESCENT LIGHTING

In plant areas with low mounting heights, or areas requiring task lighting, 8-foot industrial fixtures with silver reflectors and (4) F32T8 lamps and electronic ballasts were utilized. The elimination of the 8-foot lamps helped reduce maintenance costs, with lamp life increasing from 12,000 hours to 20,000 hours. All lay-in fixtures in offices were retrofitted with T8 lamps and electronic ballasts.
Architectural incandescent down lighting was retrofitted to compact fluorescent.

75 and 100-watt incandescent lamps were replaced with 13-watt compact fluorescent retrofits that increased lamp life from 750 hours to 10,000 hours.

EXIT SIGNS

All incandescent exit signs were replaced with L.E.D. exit signs reducing annual owning and operating costs from over, $60.00 per year to less than $2.00 per year.

OTHER AREAS

Areas requiring special retrofits included modular labs, which received vapor tight fluorescent fixtures, and outdoor flagpoles and walkways, which received recessed metal halide well lights.

THE BOTTOM LINE

The end result is a completely new, coordinated lighting system. Longer H.I.D. lamp life combined with reduced fixture locations and quality enclosed fixtures has also provided considerable maintenance savings in addition to the energy savings Anheuser Busch is realizing.