



SAN DIEGO CONVENTION CENTER

INSTALLED 2009

SIZE:
2,600,000 SQ FT

USE:
CONVENTION CENTER

LOCATION:
SAN DIEGO, CA

ANNUAL ENERGY SAVINGS:
2.8 MILLION KWH

In 2009, the San Diego Convention Center installed a 2,400-ton Trane all-VFD, all-electric plant to replace their 3,600-ton natural gas-fired absorption plant. The conversion from a gas to an electric-powered chiller plant added 1.4 mW of electrical load to the system. In order to compensate for the increased energy usage, they included LOBOS in their upgrade platform. The result? A dramatic reduction in energy consumption across HVAC usage rates for the entire convention center.

How is this possible? LOBOS uses control sequences and reset strategies that look at the AHU loads, raise the CHW temperature as high as possible, and lower the CHW differential pressure as much as possible so that the worst case AHU load is met. And LOBOS does it in such a way that its energy use plummets, even when adding major electricity draws to the system.

Despite the conversion from a natural gas to an electric plant, LOBOS has made it possible to reduce overall annual electricity consumption, allowing for an annual energy savings of 2.8 million kWh.



NEW LEVELS OF HVAC INTELLIGENCE

LOBOS brings never-before-seen levels of intelligent, efficient operation to commercial comfort systems. Before LOBOS, the basic operation of large-scale commercial HVAC systems hadn't changed in decades. Even with more efficient motors, pumps and drives and the addition of digital controls, HVAC systems being installed in 2013 operate pretty much the same way they did in 1972. LOBOS changes that.

