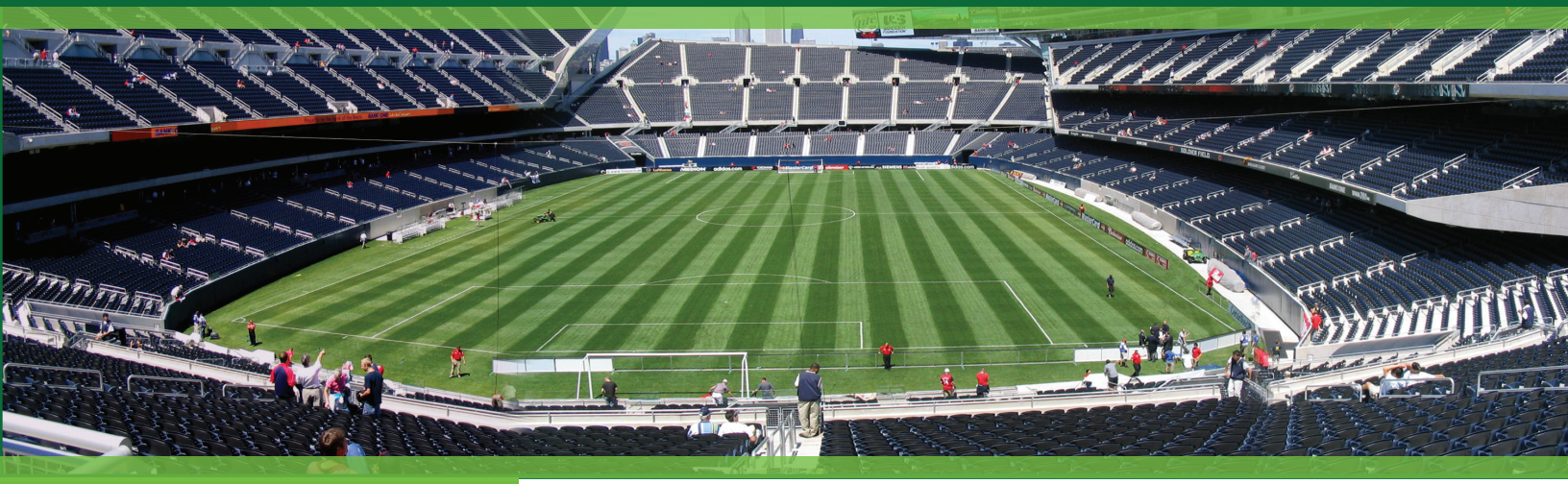
SOLDIER FIELD

Analysis Control



PROJECT AT A GLANCE

CUSTOMER

Soldier Field

ABOUT

First LEED-EB certified NFL stadium

OPPORTUNITY

Soldier Field needed a solution to remotely control plug load devices in the stadium's luxury suites.

SOLUTION

564 Bert Smart Plugs with Control and Analysis.

RESULTS

Annual Labor Savings: $24,000

ABOUT SOLDIER FIELD

Soldier Field, Chicago's premier event venue, hosts over 200 public and private events annually. The stadium is owned by the Chicago Park District and managed by SMG, the world leader in venue management, marketing and development.

In 2011, Soldier Field and the Chicago Park District were awarded LEED-EB certification for an existing building from the U.S. Green Building Council (USBGC). The stadium was the first North American stadium and first NFL stadium to earn the prestigious award.

Working together, Soldier Field, SMG and the Chicago Park District implemented energy conservation and recycling programs along with the use of green cleaning chemicals and the reuse of construction materials at the stadium. In the press release about the LEED certification, Chicago Park District General Superintendent Mike Kelly says, "It is the responsibility of the Soldier Field family and its patrons to decrease the impact of the stadium on its environment whenever possible."

OPPORTUNITY

As one of the greenest stadiums in the world, Soldier Field wanted a centralized solution that eliminated ongoing labor costs associated with turning devices on and off in the field's 133 luxury suites while continuing to save energy.

Each suite has multiple TV's and a refrigerator that stadium electricians manually turned on and off before and after each event. In addition, security personnel were frequently dispatched to individual suites during evening concert events to turn distracting TV's off.

SOLDIER FIELD

SOLUTION

Soldier Field chose Bert as their plug load control vendor. Each TV and refrigerator was plugged into a Bert which was plugged back onto the existing outlet. The Berts use the existing Wi-Fi network to communicate with the Bert software application in the Facilities office at the stadium. Instead of making multiple trips to and from each suite for each event, stadium facilities staff now remotely control the devices from their office. TV's and refrigerators are powered on before the first fans arrive and powered down when the fans go home. Bert's flexible scheduling system allows TV's to be scheduled separately to make sure they are on for sporting events but off for night time concerts.

THE POWER OF BERT

When it comes to Intelligent Buildings, Bert controls the small things and delivers big. With 30,000 units installed in over 700 buildings, Bert's end-to-end solution typically lowers plug load expense by 40 percent, saving users over 5 million kWh annually.

Using patented technologies and the facility's existing Wi-Fi network, Bert remotely measures, analyzes and controls plug and hardwired loads, ranging from individual 120V/15A devices to 277V/20A circuits. Frequently installed as a standalone solution, Bert delivers even greater value by integrating miscellaneous electric loads to Building Automation Systems (BAS), enabling the BAS to control all building loads and to collect additional measurement, temperature and other building data for increased efficiency and comfort.

Learn how K-12 schools, colleges, offices, local governments and sporting venues save money and energy by visiting www.bertbrain.com.

MEASUREMENT

Real-time energy usage data by device, group, or building for hour, day, week, month or year. Most recent measurement data also stored locally for backup.

ANALYSIS

Administrative software; analyzes energy consumption; runs M&V reports; creates and stores multiple schedules including; School Year, Vacation, Demand Response and Load Shifting

CONTROL

Mass remote control logic turns loads off nights, weekends and holidays when buildings are unoccupied. Plug devices into Smart Plugs and wire circuits with Inline Series Berts to control plug and hardwired loads.

THRESHOLD

Prevents sensitive equipment from turning off until the shutdown cycle is complete or the compressor has turned off.

TEMPERATURE

Real-time temperature data and temperature-based control using high/low set points.