

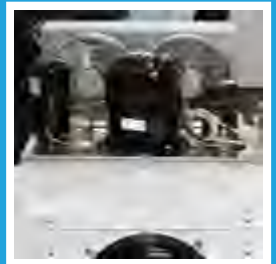
Manufacturer Smart Box Analysis

CASE STUDY



Project: Installed Smart Box in April 2011

- Installed an 800 amp 240V smart box (3 phase)
- Goals:
 - Save money on monthly electric bill
 - Correct power factor
 - To provide surge protection to company equipment
- Projected ROI: 0.69 years
- Projected Monthly Savings at 20%: \$572



Findings

- Smart box installed 4/7/11:
 - Billing Period (April): 3/28/11 to 4/26/11 (29 days)
 - Meter Readings:
 - 3/28/11: 14,433 kWh
 - 4/7/11: 14,519 kWh
 - 4/26/11: 14,655 kWh
 - Total kWh: 222 kWh x 120= 26,640 kWh
- Before Install: 3/28 to 4/7 (10 days)
 - 86 kWh x 120= 10,320 kWh
 - 10,320 kWh/10 days= 1,032 kWh/day
- After Install: 4/7 to 4/26 (19 days)
 - 136 kWh x 120= 16,320 kWh
 - 6,320 kWh/19 days= 858.95 kWh/day

Results:

- Total kWh Savings: 16.7%
- March Power Factor: 80.0%
- April Power Factor: 89.3%
- May Power Factor: 97.0%
- Power Change: +17.0%