

CASE STUDY

Design, Engineering and Installation of Renewable and Energy Efficiency Technologies

Power Factor Improvement

SITUATION

Bowne provides financial, marketing and business communications services around the world. The Boston facility, a world class printing plant, had excessive charges from their electrical power provider based on their facility's abnormally low power factor levels.

STRATEGY

Groom experts identified the source of the low power factor levels and designed a power factor correction strategy. By installing low harmonic distortion electronically controlled capacitor banks into the facility's electrical network the power factor level was corrected, thereby eliminating the periodic demand charges from the utility.



Results

Before Power Factor Correction

Annual Demand Charge	\$100,023
Average Power Factor	85.44

After Power Factor Correction

Annual Demand Charge	\$95,285
Average Power Factor	93.96

Savings

Annual Demand Charge Savings	\$4,738
Solution Investment	\$6,882
Return on Investment	69%