

# Business Energy Success Stories

---

## JCPenney – Cedar Rapids, Iowa

### Background:

"I had heard about power factor correction through the grapevine," said Bill Holderman, building supervisor. "Increasing power factor helps you save energy and money. I knew Alliant Energy could help us with PowerCure."



### Alliant Energy solution:

"Alliant Energy engineers came to our store and did the testing," Holderman said. "When they finished monitoring our equipment, they presented us with a report providing ways in which we could address harmonics and increase our power factor."

Harmonics are like radio waves, crossing back and forth over one another and causing electrical vibrations within the motor.

Without harmonic distortion, motors run cooler and more efficiently. Harmonics can also cause equipment to overheat, shut down or trip offline.

### Results:

Alliant Energy retrofitted the store with an automatic switched capacitor bank on the main disconnect, harmonic filters on variable speed drive motors and fixed capacitors for the chiller motors.

They provided a total turnkey operation by purchasing the parts, hiring the contractors and supervising the installations.

"Now when the motors are under full load, they're cool to the touch," Holderman said. "That keeps our air conditioning costs down and also makes the motor last longer."

### Recommendation:

"We are very satisfied with the way this project turned out," Holderman said. "If a company wants to save energy and cut utility costs, Alliant Energy's PowerCure can help."

---

### Learn more:

[PowerCure Services for power quality management](#)