



Case Study Meat Processor, Central IA Energy Cost Savings Project

A farm fresh meat producer located in central Iowa has been providing various pork products into the consumer market since 1959. The facility was a pre-existing pork production plant even before this owner took over the operation. As the Company's needs changed, they continued to add on, renovate, expand, and adjust their facility many times which ultimately left them with a subpar electrical infrastructure. Due to this aged and somewhat complex electrical system, they often would rely on their preferred electrical contractors and electrical engineers for support and solutions.

The Processor received notice from their utility provider that the facility power factor levels were below the acceptable limits and they would begin seeing financial penalties as a result of this poor power factor issue. Since operating cost are vitally important to their ability to provide cost competitive products in the market, they began looking into their options. Their trusted electrical engineering source preferred to work with Power Protection Products, Inc. (P3) regarding any and all power factor and power quality related projects. P3 was called to action on this project as a trusted advisor to the team.

The objective for this project was to monitor the 6 main electrical services that powered most of their inductions type loads which had the largest impacts on their overall power factor levels. This power quality study was necessary so they could understand what solutions and sizes would be needed at these 6 strategic locations. P3 began the metering process at the six main services over the course of the next 3-4 weeks; once the metering was completed, we began constructing the reports and configuring the solutions. The finished report and solution was submitted to the electrical engineer for final review; they approved the design and the finished package was then submitted to the customer which was extremely satisfied with the purposed results. The project was approved and the equipment was installed. The customer is now enjoying a reduced utility bill because their power factor charges were greatly minimized.

Power Protection Products, Inc. specializes in products, services and software that will enhance power quality, energy efficiency and data center optimization. The Company also provides turnkey data center solutions and power quality studies. We focus on reliability, understanding and optimization of your critical power and cooling needs.