



DOMINO SUGAR BALTIMORE, MD

Industry: Food & Beverage

Challenge: Domino's Baltimore steam system efficiency was lacking, primarily due to an inefficient steam turbo generator and excessive steam venting. Domino was considering various options to replace or rebuild the steam turbo-generator. They also had cogeneration proposals from utility companies and cogeneration project developers to improve overall site efficiency. Domino decided to pursue an objective assessment from an independent firm prior to acting on these options.

Goal: To achieve a 20% reduction in plant steam consumption, ensure adequacy of existing boilers to meet future production demands, and maximize overall site energy efficiency.

Service/Product: A comprehensive, strategic assessment of Domino's energy use and power generation options and application of Pinch Technology (Retrofit Design) to improve process efficiency.

Veritech Solution: Applied an integrated site approach to identify energy inefficiencies at the site. Developed accurate marginal energy costs for evaluation of options. The study determined that neither the cogeneration proposals nor a new steam turbo-generator would deliver an acceptable economic payback.

Used Pinch Technology to identify energy recovery opportunities.

Considered extensive "what if" scenarios reflecting various demand and production growth projections and alternative fuel options and costs. Distilled the identified options into consistent strategies for realizing energy savings at varying levels of capital investment.

Performed detailed assessment of the source of the steam venting problem and evaluated best approach to eliminate vent losses.

Results: Domino achieved a clear, objective and complete picture of its energy use and power generation options, including an estimated simple payback for each scenario. Veritech also delivered a "road map" for sustainable, long-term energy savings.

The Pinch Technology study defined process changes and heat recovery projects to achieve a savings of \$400,000 annually at a 1.5-year investment payback.

The assessment resulted in implementation of a monitoring and targeting system to optimize day-to-day operations.

Veritech at a Glance

Veritech strategic energy management solutions help you optimize energy use and ensure sustainable efficiency throughout all of your complex, interrelated energy processes. We use a combination of proven energy management methodologies and powerful analytical tools to assess your energy resource history and current goals, to measure and monitor your energy use, to identify and evaluate improvement options, and to track and verify the results. These services enable Veritech's clients to achieve optimal energy performance and dramatically reduce costs.

