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Capstone Micro-Turbine

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Commercial Bakery “Power Plant”



Commercial Baking industry is enjoying natural gas price lows in many parts of the country that haven't been seen for over a decade, and with abundant supplies it is anticipated that they will continue to remain at current levels or even decrease further. This has made the use of Combined Heat & Power systems much more attractive and depending on geographic location, utility rate structure, and application, the return on investment can be greater than 25%.

Combined Heat & Power (CH&P) systems provide several key advantages for both large and small bakeries to include the ability to generate electricity at less than the utility is charging, and at the same time use waste heat for processes including proofers, feedwater, water heating, basket washers, etc. Other key benefits include integration into the plants electrical distribution to serve as a source of electricity similar to generator allowing the time to safely respond to a power interruption. State and federal grants may be available as well as many utilities offer incentives to supplement both operation and initial costs, which allows them the opportunity to incorporate these units into their demand side management strategies (DSM). Operation and maintenance cost are factored into the cost of generation so that there are no hidden costs and system installation is quite simple and can be incorporated into existing or new facilities. This energy and environmental conservation measure can also be incorporated as a Performance Contract with third party financing that provides no change from current cash flow!

Energy Performance Contracting



Energy Performance Contracting is a performance-based procurement method and financial mechanism that allows investments in energy savings whereby utility bill savings that result from the installation of energy efficient upgrades (reducing energy use) can pay for the cost of the building renewal project. A "Guaranteed Energy Savings" Performance Contract includes language that obligates the contractor, a qualified Energy Services Company (ESCO), to pay the difference if at any time the savings fall short of the guarantee. For more information please feel free to contact us.