Food Processing

FuelCell Energy

Ultra-Clean, Efficient, Reliable Power

Pepperidge Farm

problem:

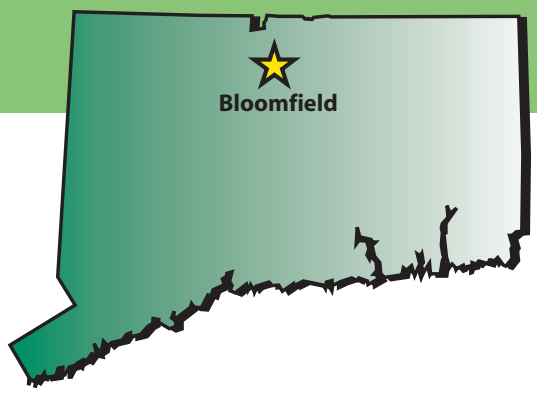
Pepperidge Farm, Incorporated, a Campbell Soup Company, was seeking an environmentally-friendly, onsite power generation system for its new bakery in Bloomfield, Connecticut to offset large electrical demands and decrease vulnerability to power outages.

solution:

FuelCell Energy™ installed two Direct FuelCell® (DFC®) power systems at the 260,000 square foot facility, providing a total electrical output of 1.45 megawatts (MW). The fuel cells generate onsite electricity 24/7 while producing near-zero emissions of nitrogen oxides (NOx), sulfur oxides (SOx), and particulate matter, with dramatically reduced carbon dioxide (CO_2) greenhouse gas compared to traditional combustion technologies. Additionally, waste heat produced by the fuel cells is harnessed in a Combined Heat and Power (CHP) application to support bakery needs throughout the facility, reducing the need for plant boilers.

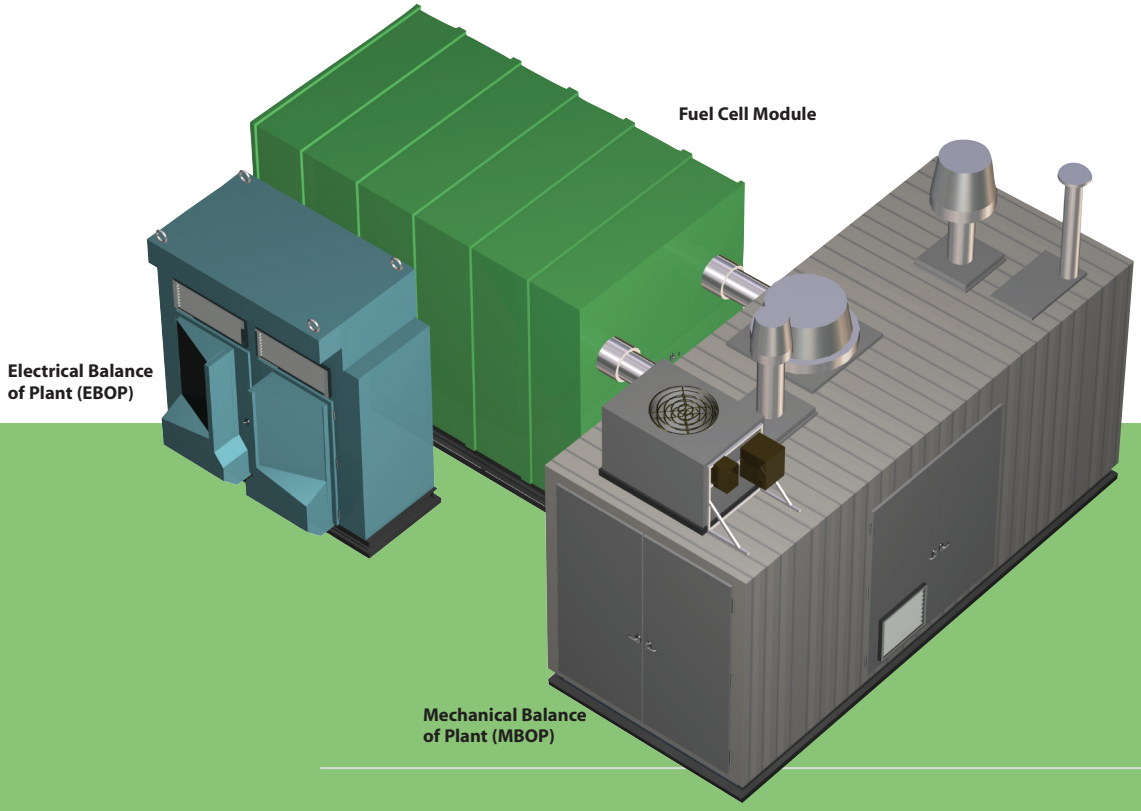
result:

The fuel cell installations, comprised of a 250 kilowatt (kW) DFC300™ installed in 2005, and a 1.2 MW DFC1500™ installed in 2008, provide approximately 70% of the facility's baseload power requirements, ensuring that the lines keep running, three shifts a day, six days a week. The fuel cells are 47% electrically efficient, well above comparable combustion technologies, and system efficiency is boosted to nearly 70% by utilizing the waste heat for bakery operations. Pepperidge Farm also took advantage of clean energy incentives offered by the Connecticut Clean Energy Fund (CCEF), a state ratepayer fund administered by Connecticut Innovations, Inc. CCEF provided $3.5 million to Pepperidge Farm to offset installation and capital costs for the fuel cells.



About DFC Power Plants

Direct FuelCell power plants operate on a variety of fuels, including methane from biogas, waste gas from industrial processes, and natural gas.



Direct FuelCell power plants are comprised of three major functional elements: Electrical Balance of Plant, Mechanical Balance of Plant, and Fuel Cell Modules.

With the fuel cells supplanting baseload power purchased from the grid, Pepperidge Farm was able to reduce the facility's carbon footprint, add power reliability, and capture heat for its operations. This bakery is a well-oiled machine — producing approximately one million loaves of bread and other baked goods a week, easily meeting the needs of New England states for Pepperidge Farm products.

About Pepperidge Farm

Pepperidge Farm, Inc. is a leading provider of premium fresh breads, cookies, crackers, and frozen foods. Pepperidge Farm was founded in 1937 by Margaret Rudkin, a Connecticut homemaker and entrepreneur, and has been wholly owned by Campbell Soup Company since 1961. The company's products are produced at eight manufacturing facilities across the United States and are distributed in more than 40 countries around the world. For more information please visit **www.pepperidgefarm.com.**

About FuelCell Energy

FuelCell Energy™ Inc. (NASDAQ: FCEL) develops and markets Ultra-Clean power plants that generate electricity with higher efficiency than distributed generation plants of similar size and with virtually no air pollution. For more information on the company, its products, and its worldwide commercial distribution alliances, please visit **www.fuelcellenergy.com**.

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