



CASE STUDY

INDUSTRY: FOOD & BEVERAGE



CUSTOMER: Pepsi Beverage Company Americas



LOCATION: Sommers, New York, USA

SCOPE OF WORK: Armstrong designed, engineered and turnkey installed Flo-Direct® gas-fire hot water heating systems on 13 production lines at eight Pepsi Beverage Company facilities to complete can/bottle warmer optimizations. The Flo-Direct® Complete Thermal Exchange (CTE) installations reduced natural gas consumed by Pepsi Americas by 37% and reduced CO2 emissions by 4,125 tons per year.

UPGRADE PROJECTS: Pepsi's overall experience of quality, speed and product satisfaction throughout all eight facilities led to naming Armstrong's Flo-Direct® the standard for warmer optimizations and quality performance applications.

BENEFITS: Overall, Armstrong completed the project in just 10 weeks with zero production interruptions and installation delays.

- Reduced natural gas costs by an average of 35%
- Water Reduction: Flo-Direct recovers “free water” at the rate of over 30 gallons per hour or 1,217,000 gallons a year
- Return investment: Invested \$1,632,838—less than 3-year simple payback, 21% IRR
- Increased tempering of warmer water efficiently, improved water capacity and productivity
- Eliminated inefficient heat generated throughout the facility
- Reinforced a “green” image by reducing natural gas consumption and CO2 emissions
- Rapid implementation and installation reduces cost and energy usage

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