



## Coca-Cola Refreshments, Inc.



Supermarket Hospitality Education Datacenter Healthcare **Industrial** Government/Municipal Office Special

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### Coca-Cola Refreshments Bottles Energy Efficiency with Next-Generation PureCell Model 400 Fuel Cell Powerplants

#### Coca-Cola Refreshments USA Generates Clean Power On-Site



*“Coca-Cola is focusing on implementing green innovations and initiatives to reduce our company’s overall environmental footprint at each step of our operations. Use of these fuel cell systems at our Elmsford facility is one way in which we are working to achieve our 2020 environmental goals.”*

*John Lacey, Sales Center Manager  
Coca-Cola Refreshments*

Coca-Cola Refreshments (CCR) in Elmsford, New York, is the third largest Coca-Cola® bottler in the world. With a strong focus on initiatives that protect the environment, conserve resources and enhance the economic development of the communities where they operate, CCR is committed to outstanding corporate citizenship.

As a demonstration of this commitment, CCR chose two PureCell Model 400 fuel cell systems from UTC Power to provide 35 percent of the electricity and heat required to operate the Elmsford facility. Funded in part by the New York State Energy Research and Development Authority (NYSERDA), the clean, efficient powerplants help the company lower its energy costs, conserve water and further its sustainability efforts.

<b>Equipment:</b>	Two PureCell Model 400 combined heat and power solutions
<b>Installed:</b>	July 2010
<b>Location:</b>	Elmsford, New York
<b>Provides:</b>	Power for electrical needs Heat for process loads and space heating Backup power

#### • Energy Productivity

It’s all about doing more with less. More than half of the energy potential in traditional power generation goes up the stack as waste heat. In contrast, the UTC Power fuel cell converts heat exhaust into heating and cooling, turning potential waste into usable energy. In addition, the Model 400 boasts an industry best 10-year stack life with a 20-year product life and overall system efficiencies of up to 90 percent.



Harvest the productivity. Value the security. Preserve the planet.



**PureCell Solution Advantages**

**Energy Productivity**

- System efficiencies of up to 90% (compared to 33% for traditional power sources)
- Energy costs reduced
- Natural resources conserved

**Energy Security**

- Continuous operation provided
- Business services protected
- Community safety enhanced

**Energy Responsibility**

- Ultra-low emissions
- Carbon footprint reduced
- Water conserved

**Proven Experience**

- Over 50 years of fuel cell experience
- Sole fuel cell supplier to NASA for manned space missions for over 40 years
- Over 300 PureCell systems installed in 19 countries on 6 continents
- Over 1.5 billion kilowatt hours of commercial fuel cell operation



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**• Energy Security**

The UTC Power fuel cells on-site at CCR bottling facility are capable of operating independent of the local utility power company. If there's a grid power outage in the Elmsford area, the fuel cells will continue to power select operations at the facility, while power is being restored.

*"Coca-Cola Refreshments is to be commended for working to reduce its environmental impact by choosing clean, efficient fuel cells to support its Elmsford operations. As NYSERDA works to assist companies seeking cleaner fuel options, we hope Coca-Cola's use of innovative fuel cell technologies will serve as a model for industries and manufacturers all across New York State."*

*Francis J. Murray, Jr.  
President and CEO  
NYSERDA*

**• Energy Responsibility**



CCR is proving that sustainability makes economic sense. While reducing its carbon footprint, it's also conserving natural resources. The UTC Power fuel cells will reduce the facility's carbon footprint by 2,635 metric tons each year.\* To achieve the same positive environmental impact, 546 acres of forest would need to be planted.\*\*



The power generated by a megawatt of fuel cells saves over 4 million gallons of water each year† that would otherwise be wasted by conventional electrical generation. That's enough water to fill more than 6 Olympic-size swimming pools. Water conservation is an increasing priority for businesses and humanity as we collectively struggle to conserve precious water resources.



Reduction of harmful emissions like nitrogen oxides (NOx) is yet another environmental benefit of fuel cell technology. NOx emissions will be reduced at CCR by over 4 metric tons each year, which equates to the same environmental benefit as removing 255 cars from the road.‡

\* Based on U.S. EPA eGrid data for non-baseload generation in New York City Westchester County (NYCW).  
 \*\* Each acre of forest assumed to absorb 1.3 ton of carbon per year (Ref: Intergovernmental Panel on Climate Change).  
 † Based on the average use of 1,062 gal/MWhr of power generation plants in the U.S. (Ref: U.S. Geological Survey).  
 ‡ Each car assumed to generate 38 lb NOx/year (Ref: U.S. EPA).



**UTC Power**

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