



## Non-Stop Energy Security Helps Price Chopper Keep Food Fresh and Customers Coming Back

Price Chopper’s concept store and pharmacy in Colonie, New York was designed to showcase the company’s Growing Greener Initiative, which included instituting energy savings’ programs throughout the 69,000 sq. ft. facility. To minimize the store’s utility costs and carbon footprint, protect the environment and provide uninterrupted power for its dairy, deli, frozen foods, meats and seafood, a Doosan PureCell® Model 400 fuel cell was installed in 2009.

Since that time, the natural gas fuel cell has annually been providing 60 percent of the store’s energy, including electricity, heating, cooling and backup power. In recognition of the facility’s superior energy savings performance, the Colonie store was awarded gold-level “GreenChill Certification” by the Environmental Protection Agency.

In 2011, the Price Chopper Supermarket in Middletown, Connecticut installed a Doosan PureCell Model 400 system. To date, the combined heating, cooling and power solution has helped the store achieve its environmental goals, conserve natural resources and reliably shield against food spoilage due to grid failure.

## PROJECT OVERVIEW

### EQUIPMENT

PureCell® Model 400 combined cooling, heat and power solution

### INSTALLED

November 2009

### LOCATION

Colonie, New York

### PROVIDES

- Continuous power and electric-load following to match store load
- Heat recovery – space cooling, dehumidification, domestic hot water
- Grid independent backup power

## QUANTIFIABLE ENVIRONMENTAL BENEFITS

Colonie, NY Annual Facility Savings

**3 Metric Tons**  
of Nitrogen Oxides

The PureCell unit annually reduces harmful nitrogen oxides emissions at the Colonie store by nearly 3 metric tons – which equates to removing 160 cars from the road.



**1,115 Metric Tons**  
of Carbon Dioxide

The PureCell unit reduces the store’s carbon footprint by 1,115 metric tons each year.

*“We set out to design and build a store that would be world-class and would demonstrate our leadership and concern for the environment and energy efficiency. We are doing everything possible to make this store an example of how businesses should operate.”*

**Neil Golub**  
President and CEO  
Price Chopper



**10-Year**  
Cell Stack Life

**20-Year**  
Service Plans

# Doosan Fuel Cell

## THE CLEAN ENERGY YOU COUNT ON

The Doosan PureCell® Model 400 System provides clean, reliable, continuous energy for buildings and microgrids. The solution can provide electricity and heat completely independent from the utility grid, keeping critical operations running in the face of power outages from manmade and natural disasters.

From single unit applications for commercial buildings to multi-megawatt installations for data centers, industrial facilities and microgrids, sustainable fuel cells enable building owners and operators to maximize return-on-investment by generating continuous, secure energy efficiently.

The scalable Doosan PureCell System is a clean-tech marvel, providing a complete energy solution that generates combined cooling, heat and power (CCHP). The PureCell System produces 440kW of clean, electricity and 1.7 million Btu/h. of usable heat from natural gas with unmatched reliability.

Doosan offers end-to-end support for developing the right clean energy solution for your business, including initial energy needs assessments, project management, installation, around-the-clock monitoring and innovative financing solutions. With our broad experience in numerous industry sectors, geographies and operating environments, our team will partner with you to help achieve your energy goals now and in the future.

Doosan Fuel Cell America engineers, manufactures and tests each PureCell Model 400 system at its Connecticut headquarters, which, combined with the 50-plus years of fuel cell development and applications experience of United Technologies, Corp., results in a cost-efficient clean energy source that reduces greenhouse gasses, lowers air emissions and saves water.

Let's discuss ways we can make clean energy a reality for your business.



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**90%**  
System Efficiency

**98%**  
Fleet Uptime

**12**  
MILLION HOURS  
of Fleet Field Operation