



Project Profile

Telecom Application



CONSERVATION MEANS INNOVATION

Cox Communications Uses Doosan Fuel Cells to Achieve Sustainability Goals

Cox Communications, which serves 6 million customers nationwide and is the country's third largest cable and broadband company, launched Cox Conserves, its national sustainability program in 2007. Three years later, two Cox facilities in California each began utilizing a pair of PureCell® Model 400 fuel cells, providing 1.6 megawatts of power and heat to facilities in San Diego and Orange County.

Cox Conserves focuses on reducing energy and water consumption while minimizing waste. Cox annually prevents 21 million tons of greenhouse gasses from entering the environment through its alternative energy initiatives, and at the forefront of this innovative program are four Doosan PureCell Model 400 systems.

The installation of the Doosan Fuel Cell units was funded, in part, by California's Self Generation Incentive Program (SGIP) and deemed "renewable" in California as 75 percent of the fuel input is purchased via a bio-gas producer.

QUANTIFIABLE ENVIRONMENTAL BENEFITS

Annual Savings of 4 Doosan Fuel Cells at Cox in Southern California

10 Million

Gallons of Water



The PureCell Model 400 systems have conserved approximately 10 million gallons of water annually since the four units have been installed – compared to the consumption of water by utility generation.

5,387 Metric Tons

of Carbon Annually



The four PureCell Model 400 systems have annually reduced the carbon footprint at the San Diego and Orange County Cox facilities by 5,387 metric tons: the equivalent of planting 1,092 acres of forest.

PROJECT OVERVIEW

EQUIPMENT

Four PureCell Model 400 combined heat and power units

INSTALLED

October 2010

LOCATION

San Diego and Rancho Santa Margarita, California (2 PureCell Model 400 systems installed at each location)

PROVIDES

- Continuous power for electrical needs
- Grid independent backup power

"At Cox Communications we're deploying technology that benefits our customers and our communities. The fuel cells enable us to be good environmental stewards, as well as embrace a technology that positively impacts our operating costs."

Jay Rolls

Senior Vice President of Technology
Cox Communications



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