

DOOSAN

The Clean Energy You Count On



Doosan Fuel Cell



DOOSAN FUEL CELL

A Heritage of Success Founded in Quality

Doosan Fuel Cell (Doosan) possesses over a half century of innovation and success in the development of fuel cell technology that has been proven across land, sea and space. Headquartered in South Windsor, CT, Doosan Fuel Cell is a subsidiary of Doosan Corp., a multi-billion dollar company based in South Korea with diverse business operations in energy and infrastructure that span the global marketplace. Customer confidence and an unwavering commitment to quality have earned Doosan a reputation as a world-class fuel cell manufacturer.

A Culture of Customer Satisfaction

Doosan is driven by the belief that success is derived from the achievements of our employees and customers. *The Doosan Way* business culture values the power of collaboration, which is why we partner with our customers to achieve energy cost efficiencies.

Doosan fuel cell solutions serve commercial, institutional and industrial global customers. Our approach to project management, and long-term focus, has lead us to Fortune Global 2000 status since 2007 and earned repeat business with companies such as Verizon and Korea Southeast Power (KOSEP).

Secure by Design

The Doosan PureCell® Model 400 provides ultra-clean combined heat and power (CHP) fueled by abundant natural gas. The system operates with and without the grid – providing continuous power to meet our customers’ daily electric and thermal energy needs – as well as critical emergency power if the grid fails.

The PureCell Model 400 is designed to recover exhaust gas energy to supply valuable heat for HVAC and water heating applications. The result is a complete onsite energy solution that takes advantage of up to 90% of the available system energy (doubling the conventional power grid).

Diverse Customer Base

With a broad project portfolio that spans geographies and multiple projects for high-profile customers, Doosan consistently delivers results that exceed expectations. We accomplish this by providing enhanced communication, uncompromising quality and incomparable service.



Broad Market Coverage Includes:

Commercial Mixed Use

Hospitals

Retail

Data Centers

Industrial

Utilities

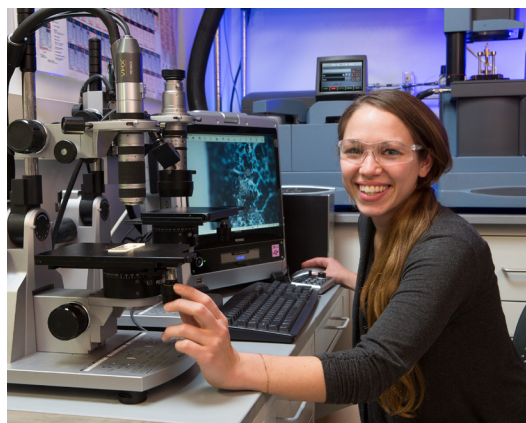
Education



INVESTING IN THE FUTURE

Doosan invests in ongoing research and development to achieve outstanding fuel cell performance. The company's innovative Technology Center is the operations hub for a host of skilled Ph.D's, engineers, research scientists and lab technicians, who develop and test high-performance materials, technologies and ideas.

Doosan is at the forefront of advances in clean energy technology. Each component of the PureCell Model 400 is designed and tested to meet the highest industry standards. As a result, Doosan's fuel cell solutions consistently deliver superior performance in mission critical applications.



DOOSAN – THE VALUE YOU COUNT ON

The PureCell Model 400 system, which operates 24 hours every day to provide a sustainable source of energy cost savings to customers, is ideal for companies seeking clean, reliable, onsite generation to meet CHP needs. The system runs in parallel with, or independent of, the electric grid, can be combined with solar and wind to augment a renewables platform, and operates with low CO2 emissions for a facility with continuous energy needs.



Clean

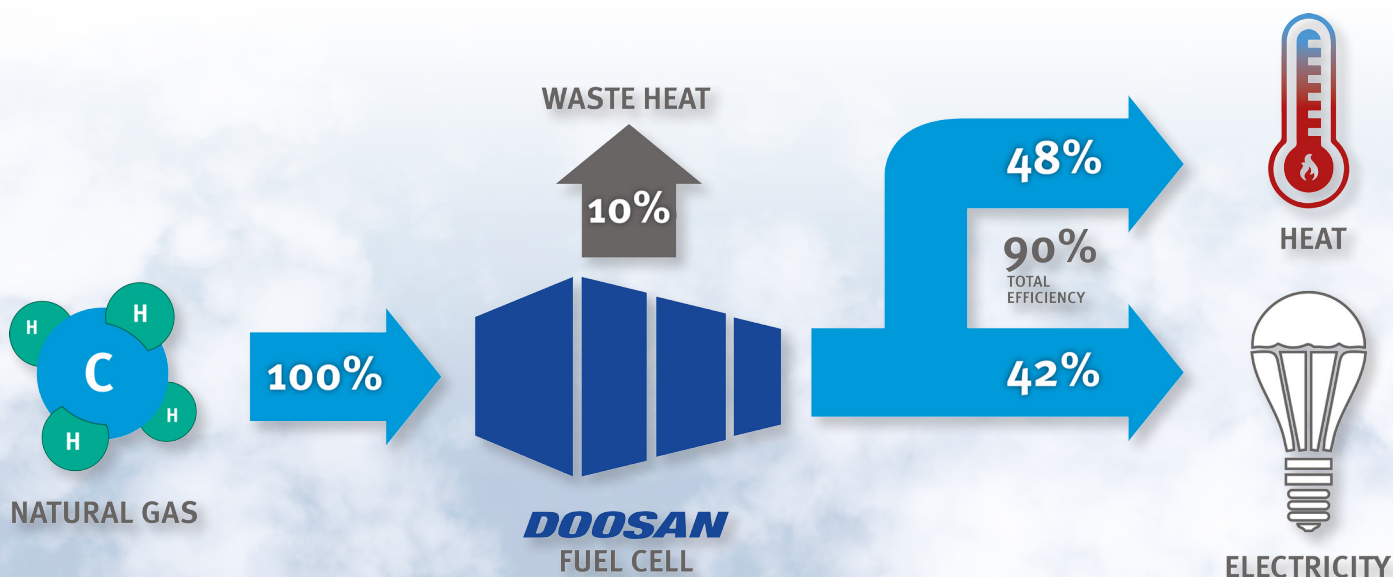
- Low carbon footprint
- CARB certified ultra-low emissions, barely more than water vapor

Reliable

- 98% uptime proven across more than 12 million hours of field operations
- Grid-independent critical power
- 50-plus years of technology experience

Cost-Effective

- Industry-leading 10-year stack life
- Low maintenance requirements
- Financial solutions with low energy rates



PURECELL MODEL 400 DELIVERS RESULTS

Output and Efficiency

440 kW baseload electric output
1.7 MMBtu/hr heat output
42% electrical efficiency
90% system efficiency

Energy Productivity

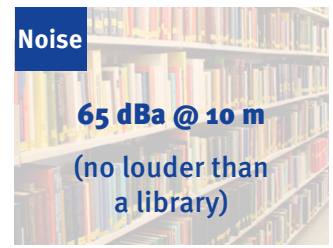
Clean cost saving energy capable of displacing standby generation
Industry-leading capacity factor averaging 98%
4x net reduction in CO₂ emissions compared to solar PV
Reduced footprint compared to wind and PV (0.1 acres/GWh/yr. for fuel cells compared to 0.28 acres for wind and 3.1 acres for solar)

Generation Flexibility with Load-Following

High efficiency & reliable turndown capability
Real power (kW) dispatch
Reactive power (kVAR) dispatch
Capable of meeting frequency regulation market requirements

Positive Environmental Impact

The Doosan PureCell Model 400 is a high-efficiency power generation solution that is helping companies achieve their corporate sustainability goals while developing a cleaner, more reliable energy portfolio.



* Annual savings from one PureCell Model 400 compared to traditional energy sources. CA Example.

PERFORMANCE WHEN IT MATTERS MOST



A Doosan fuel cell can provide electricity and heat completely independent from the utility grid. When an energy crisis strikes, you can count on Doosan fuel cells to keep your critical operations up and running. Recent examples where the PureCell Model 400 performed without interruption include:

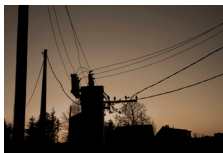
Hurricane Sandy (2012)

23 fuel cells in the impacted area on the East Coast remained operational during the storm.



Winter Storm Alfred (2011)

Whole Foods Market in Glastonbury, CT., avoided costly food spoilage; Connecticut Juvenile Training Facility operated continuously; South Windsor High School served as a community shelter.



San Diego, CA Blackout (2011)

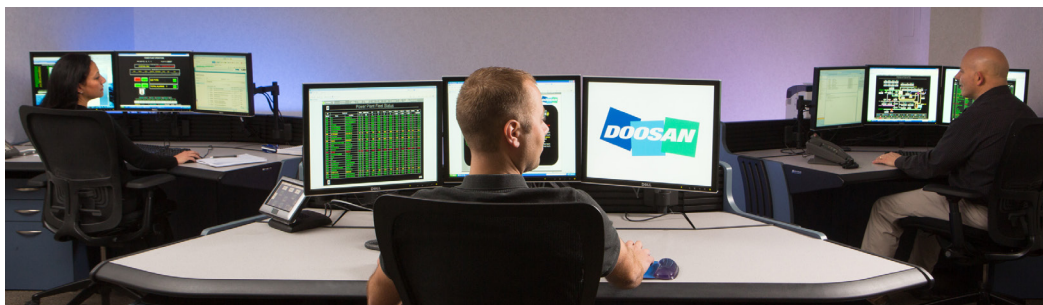
Albertsons Supermarket remained open and perishable food was protected.

PureCell Model 400 Meets Critical Code Requirements

The Doosan PureCell Model 400 is manufactured in an ISO 9000-certified plant and meets a number of critical code approvals. It is certified to ANSI/CSA FC-1:2014 for stationary fuel cell power systems and adheres to stringent California Air Resource Board (CARB 2007) standards for ultra-low air pollutant emissions. Utility interconnections are simplified through the UL1741 listing.



THE SERVICE YOU COUNT ON



Doosan's Professional Services Programs are designed to optimize the performance of the PureCell Model 400 system throughout the product lifecycle and our International Control Center is open 24/7. From remote monitoring services (RMS) to customized reporting and responsive on-site services, your peace of mind is our primary objective.

Project Development

- Energy analysis, planning & design
- Economic pro forma development

Installation Services

- Expert site design and installation consulting
- Turnkey design/build solutions

Managed Services & Reporting

- Equipment service
- 24/7 remote monitoring
- 10- and 20-year comprehensive service plans



FINANCIAL SOLUTIONS

Flexible Acquisition Models Match Your Business Needs

Doosan has strong partnerships with finance providers who have experience with distributed energy projects. They can help structure creative financial solutions to help you reduce and take control of your utility expenses by locking-in long-term low energy costs/rates.



**Capital
Purchase**



**Power Purchase
Agreement**



**Capital & Operating
Leases**



**Federal & State
Incentives**

Our team will work with you to evaluate the economic benefits of a PureCell Model 400 for your facility and help you maximize your return-on-energy investment.

90%
System Efficiency

10-Year
Cell Stack Life

98%
Fleet Uptime

50
Years Experience

20-Year
Service Plans

TALK TO US ABOUT YOUR BUSINESS PLANS & GOALS

Building a high-performance clean energy solution that meets your business objectives requires calculated planning and flawless execution. Doosan can deliver a complete solution – from design inception through deployment/installation, plus the comprehensive services, maintenance and support required to transform a strategy into an operations reality.

At Doosan we are passionate about resilient, clean, fuel cell technology and have the people, facilities, equipment and financial strength to deliver on our promises. We continue to invest in our people and our company, and we'd like the opportunity to work with you to achieve your sustainability goals.



Authorized Value Added Reseller



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