

Doosan Fuel Cell At a Glance



DOOSAN

Competitive advantages of Doosan Fuel Cell

High durability

Our fuel cell systems last longer owing to their 200°C-and-below operating temperatures and stabilized stack technology.

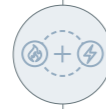
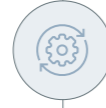
Eco-friendly

Our fuel cell systems generate significantly less emissions and noise compared to conventional power generators, and are pollution free when operating on hydrogen.



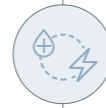
Fuel flexibility

Our fuel cell systems can be used in more diverse environments as they operate on hydrogen, natural gas, and LPG.



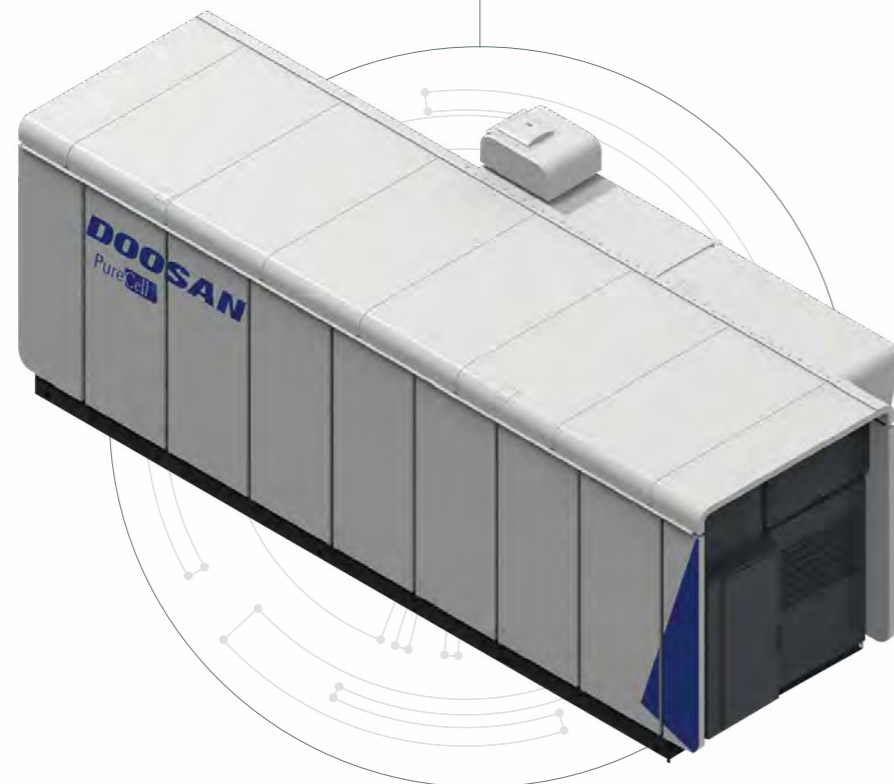
Quick response

Our fuel cell systems respond to load fluctuations real-time as their output can be scaled to as high as 2.27% ramp-up and as low as 5% ramp-down of rated output per second.



Combined heat and power

Our fuel cell systems are highly efficient in that they supply not only electricity but also hot water for local heating and cooling with a maximum efficiency of 90%.



PureCell® Model 400 Hydrogen

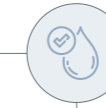
This pollution free power generation solution, which uses hydrogen, boasts high production efficiency and also produces clean water as a byproduct.

Hydrogen	8.3 x 2.5 x 3.0m	440kW
HG (120°C)	30-130L/hr	Total 85%, Electricity 49%, Heat 36%

PureCell® Model 400

This is ideal for urban areas as it produces electricity and heat by using existing infrastructure.

NG	8.3 x 2.5 x 3.0m	440kW
HG (120°C)	Total 90%, Electricity 43%, Heat 47%	



Fuel Size Rated Output Heat Supply
 Water Production Hydrogen Production Efficiency

PureCell® Model 400 LPG/NG Dual

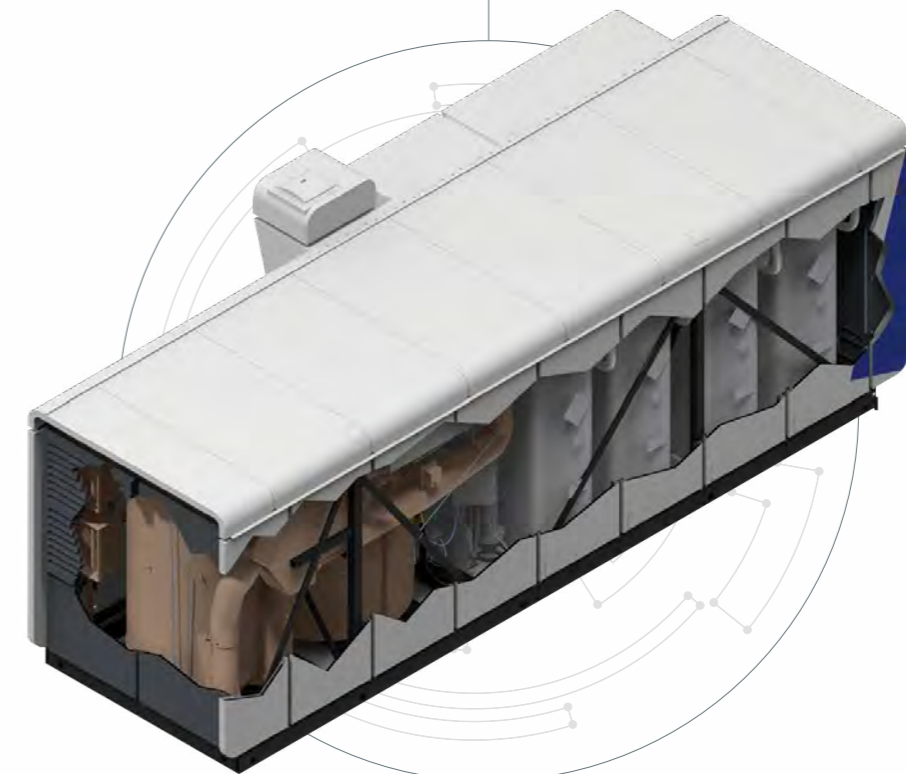
Designed to operate on either LPG or natural gas (NG), this model is ideal for regions with insufficient electric power infrastructure or as a backup generator.

LPG/NG	9.8 x 2.5 x 3.0m	440kW
HG (120°C)	Total 90%, Electricity 41% 43%, Heat 49% 47%	

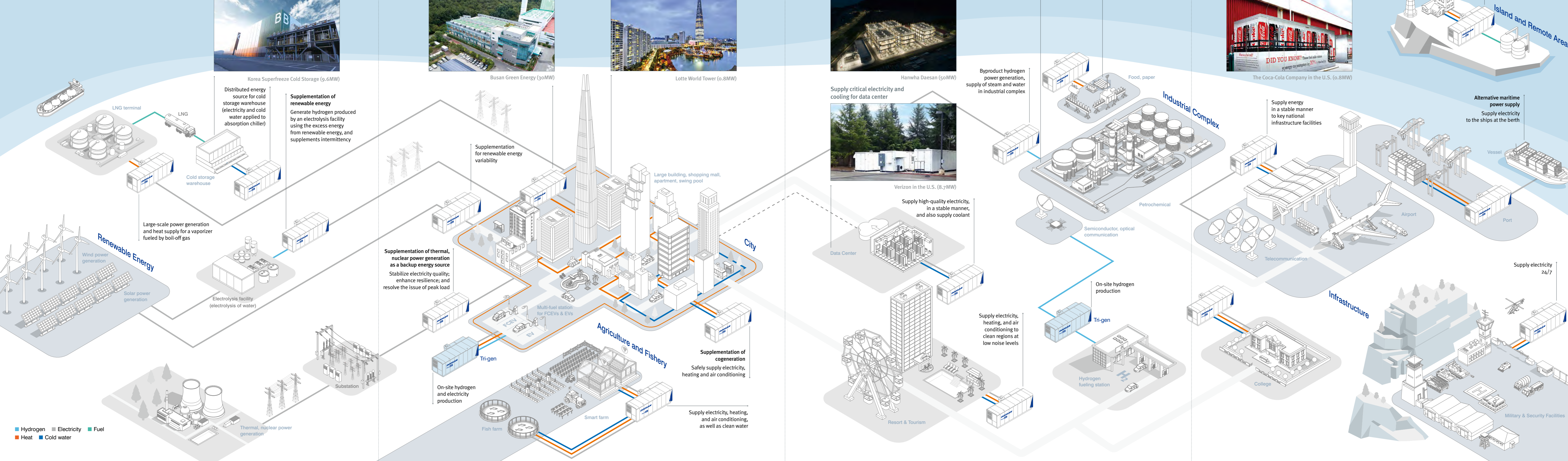
Tri-gen

This on-site hydrogen production model produces three types of energy – hydrogen, electricity, and heat – at specific areas where hydrogen is needed.

NG	8.3 x 2.5 x 3.0m	350-440kW
HG (120°C)	0-220kg/day	



Installation Cases of Doosan's Fuel Cell Systems





Location

Headquarters

100, Seogam-ro 7-gil, Iksan-si,
Jeollabuk-do

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