

# PPL Renewable Energy | **Pepperidge Farm Bakery**

PPL Renewable Energy installed a 250-kilowatt fuel cell power plant system at a 265,000 square-foot Pepperidge Farm bakery in Bloomfield, Connecticut, with its goal to deliver clean, efficient and reliable state-of-the-art power generation. FuelCell Energy manufactured the DFC® 300 fuel cell and Millennium Builders, a PPL company, managed the installation.

The fuel cell operates in a cogeneration mode and produces about 1.7 million kilowatt hours per year, providing about 20% of the facility's base load power with the heat byproduct being used as hot water for the bakery's boilers.

The Pepperidge Farm project was partially fund by the Connecticut Clean Energy Fund and the U.S. Department of Defense Climate Change Fuel Cell Program.

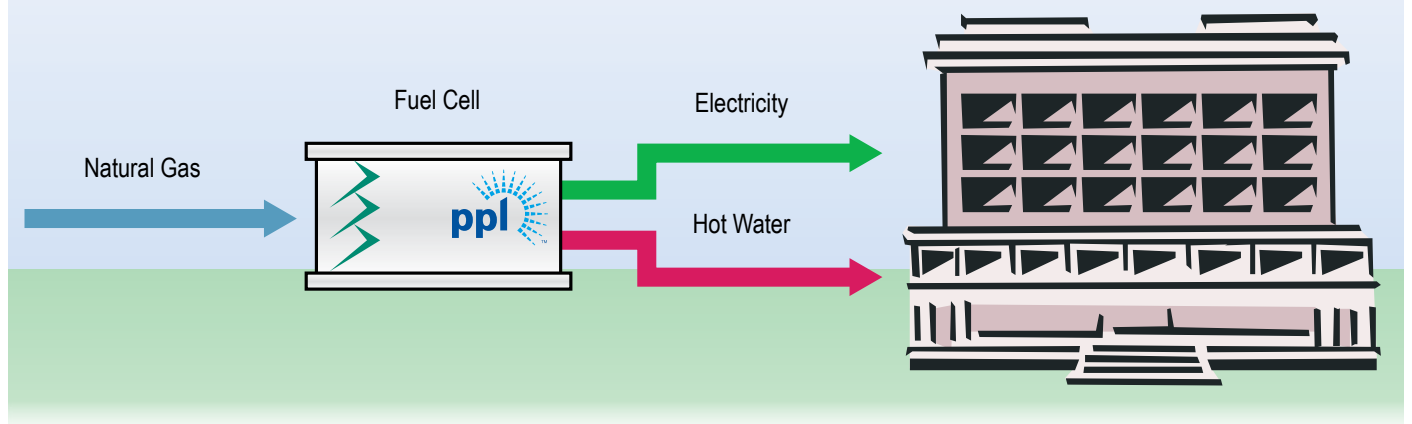
This fuel cell project reduces annual greenhouse gas emissions by 2.75 million pounds of carbon dioxide by avoiding the use of fossil fuels. The reduction of greenhouse gas emissions is equivalent to these annual environmental benefits:

- Removing 200 cars from the road.
- Not consuming 142,000 gallons of gasoline.
- Reducing the import of 2,900 barrels of oil.
- Not using 52,000 propane cylinders for home barbecues.



<b>Location:</b>	<b>Bloomfield, CT</b>
<b>Operational:</b>	<b>January 2005</b>
<b>Equipment:</b>	<b>One Direct FuelCell® 300 power plant</b>
<b>Capacity:</b>	<b>250 kilowatts of electric power and heat</b>
<b>Input:</b>	<b>Natural gas</b>
<b>Output:</b>	<b>DFC® powerplant provides about 20% of the bakery's electricity and hot water needs.</b>

The Fuel Cell Process



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