

**UTC Power's fuel cell  
powering a hybrid-electric bus**



Replacing one diesel bus =  
the environmental benefits of planting 31 acres  
of forest and eliminating the NO<sub>x</sub> (nitrogen  
oxides) emissions from 77 cars.

**The ultimate power trip.**

A fuel cell is an electrochemical device that combines hydrogen  
and oxygen to produce nothing but electricity, heat and water  
pure enough to drink.

**Doing more with less.**  
This fuel cell bus is twice as fuel  
efficient as a diesel and operates for  
350 miles without a fill-up. That's two  
days of travel for a normal city bus.

**Goodbye dipstick.**  
A fuel cell has no moving parts.  
No friction, no wear, no oil  
(or oil changes).

**Don't miss the bus.**  
UTC fuel cells are ready to go. Right  
now. They have already helped transport  
more than 200,000 Californians to  
a cleaner world.

**From the moon to the mall.**  
UTC Power's fuel cells were first used  
in the Apollo space program and have  
been on every American manned space  
flight since. Today we fit 30 times the  
power into the same size unit.

**"I'll be there in 10 minutes."**  
There is no diesel engine, so it's as  
quiet as a luxury sedan. In fact, a bus  
driver in the front can hear you on your  
cell phone in the back.

**Wherever it's critical.**  
We don't provide fuel cells just for  
buses and manned space flight. We  
have them for cars, hotels, hospitals,  
universities, office buildings, even the  
New York City Central Park  
Police Station.

**It's a bus! It's a generator! It's a bus!**  
This bus can power a small office  
building in a blackout. Talk about  
emergency preparedness.

**Supply, supply, supply and demand.**  
Hydrogen is the most plentiful  
element on earth.

**Ham & cheese**  
(Bus drivers need  
fuel too.)

**Bike rack**

**The big deal.**  
Many scientists, economists and forecasters  
believe hydrogen (generated benignly from solar,  
wind or water sources) will replace carbon over  
the next century as our planet's fuel source.  
No pollution. No global warming. Available  
in limitless quantities and not under somebody  
else's control. Could be the big deal.

**Zero. Zip. Nada.**  
No matter where in the  
world a fuel cell is being used,  
there are zero toxins and zero  
carbon emissions.

**High voltage  
batteries**

**Electric drive motor**

**Accessory  
drive system**

**H<sub>2</sub> + ½ O<sub>2</sub> =  
H<sub>2</sub>O + electricity + heat**

**PureMotion™ 120  
fuel cell power system**

## CAN THE RIGHT THING AND THE PROFITABLE THING BE THE SAME THING?

United Technologies has reduced energy consumption measured in Blu's by 19% over the last decade, on a company more than twice the size. We make more efficient products, like elevators that use 75% less energy and fuel cell buses whose emissions are water and waste heat, and nothing more. United Technologies: the 48 billion dollar company that proves you can be as conscientious as you are competitive at every turn. Learn more at [utc.com/curious](http://utc.com/curious).



**United  
Technologies**

You can see everything from here.