

HydroGen3

Fort Belvoir, Virginia, is host to an exciting project on the cutting edge of transportation and environmental technology. Through a cooperative research and development agreement with the Army, Fort Belvoir is now the base for the General Motors HydroGen3.

A car that runs purely on liquid or compressed hydrogen and packs quite a punch.

Stanley Horky/ Business Development Manager, GM Fuel Cell Activities: “The efficiencies of operation of fuel cells are approximately double of what we see with conventional internal combustible engines, in terms of fuel economy improvements.”

The car can accelerate to speeds of more than ninety miles per hour, while running completely clean and green.

Stanley Horky/ Business Development Manager, GM Fuel Cell Activities: “Ultimately another major issue is that when you look at fuel cells, particularly hydrogen powered fuel cells, you have essentially zero emissions.”

...its by-product... water that you can actually drink.

Using Fort Belvoir, General Motors can run HydroGen3 through the gauntlet of real-world Washington D.C. area traffic.

It's a prime example of the Army and industry working together to explore the future of both environmental stewardship and military readiness.

Paul Skalny/ Deputy Director and Director of Strategic Initiatives and Programs for the National Automotive Center: "It's industry bringing technology to the military and it's the military taking advantage of that technology and using it in an environment that's not tactical, but using it in an environment that's both non-tactical and administrative and being able to see, what are the implications for the military for the use of fuel cells in the future."

The Army would like to improve fuel efficiency in all its vehicles. Fuel is heavy, and we have to take a lot with us when we go to war. Fuel-cell vehicles could help reduce that burden.

Fuel cell technology may eventually bring soldiers quieter engines, improve range operations, and make the Army a greener, lighter and more agile force.

Jesse McGill, Fort Belvoir, Virginia