

"I'd put my money on the sun and solar energy. What a source of power! I hope we don't have to wait until oil and coal run out before we tackle that." -Thomas Edison

(http://www.hydrogenhouse.com/)



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THE HYDROGEN HOUSE



Inside the workshop, inverters transform the solar panels' DC power to AC

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THE HYDROGEN HOUSE

The Hydrogen House is North America's first regulation-approved solar-hydrogen powered residence. The home was developed by Mike Strizki with a grant from the New Jersey Board of Public Utilities. The solar hydrogen system was completed in 2006 and has since received international acclaim.

Located on an 11-acre plot of land in the rolling hills of Hopewell, New Jersey, the Hydrogen House operates by collecting solar energy from a 21-kilowatt array of solar panels mounted throughout Strizki's property. The energy from the 70 thin film and 80 polycrystalline panels passes through inverters where it is collected in a relatively small battery bank used to run a low-pressure electrolyzer.

The electrolyzer splits water molecules into the base elements hydrogen and oxygen. Strizki's system stores the hydrogen in 11 reused low-pressure propane tanks, similar to those found at a typical gas station. The hydrogen can then be burned for cooking and heating similar to natural gas, and can be converted into electricity by way of a hydrogen fuel cell. The only emissions from the system are medical grade oxygen and chemically pure water!

Coupled with his home's geothermal heat system, Mike Strizki pays no energy bills and actually sells the excess electricity his system produces back to the grid at a staggering profit of between \$7,000 to \$20,000 per year!

What's more, he is able to fill the tank in his hydrogen fuel cell vehicle for free. No more cowering to the ups and downs of gasoline prices.

Since the prototype Hydrogen House's development, Strizki's company, Strizki Systems, has installed an upgraded version of the solar-hydrogen system in the Cayman Islands, and has numerous celebrity clients awaiting a Strizki System of their own.

This technology is scalable, and can even be developed at the utilities level with the right investment. Even better, in cases of multiple users, such as a neighborhood or condominium complex, the price of the system reduces exponentially per capita.

The Hydrogen House is now moving into Phase 2, where more modern hydrogen fuel cell technology will be integrated to demonstrate increased efficiencies and economic viability of the system.

Mike Strizki & the Hydrogen Home



HYDROGEN HOUSE STATISTICS

Solar Panels (21kw): 70 EPV 50-watt thin film panels; 80 polycrystalline panels by SunPower, Sharp & Canadian Solar

Inverters: 220 volt single phase by PV Powered, SMA & Sharp

Batteries: Marathon MV90 Lead-Acid Gel Cells

Electrolyzer: Proton Energy low-pressure 200 psi Hogan-RE

Fuel Cell: 5kw Gencore Plug Power

Hoses, valves & connections: Swagelock

Hydrogen tanks: 1960s era reused 1,900 cubic ft. low-pressure propane tanks, 200psi

House: Modular energy efficient "Good Sense" home

Geothermal: U.S. Power Systems

Windows: Low emissivity glass

Insulation: Open-cell high-R foam

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