



# Sunny & Share

An Alternative Energy Newsletter

Volume 1, Issue 1, March 2007

## NanoSolar Acquires Former Cisco Plant

by Christopher S. Knepper

PALO ALTO, CA - NanoSolar, the world leader in solar panel technology announced the acquisition of sites in San Jose and Germany in a press release.

The new sites give them more than 647,000 square feet of space for manufacturing, research and development, and company headquarters.

NanoSolar has a breakthrough technology that allows them to print solar panels on long sheets. This makes the panels less expensive and brings them closer to their stated vision of "A Solar Panel on Every Building."

NanoSolar has three products. The first is a solar panel cell package they call PowerSheet. It comes in an industry standard package and will be available to the general public in 2007, following their testing protocol.

The second product, called SolarPly, is a roofing membrane. Designed for commercial roofs, it is, in essence, a "carpet" for the roof that provides electricity.

The third product, Utiliscale, is meant for ground-mounted installation on a large scale. Large, undeveloped desert areas would be optimal customers for this product.

All three of these products are being sold to system integrators, rather than the public at large. However, the nanoscale technology and roll-printing manufacturing make this a very attractive product at a very attractive price.

With rising energy prices, environmental damage from greenhouse gases, and America's growing dependence on foreign oil, investing in alternative energy sources makes sense.

Look into getting these panels on your home. Spending the money you would give to utility companies on your own equity is a wise investment.

### Staff Box

*Sunny & Share* is a one-man operation. All articles, design, layout, and research are done by Christopher S. Knepper.

Any contributions of material, writing, photos, anecdotes, or other assistance are greatly appreciated.

We promote products and technologies that we believe in. No corporate sponsors are, or ever will be, accepted. Donations from private individuals may be sent to:

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## Honda Debuts Hydrogen Fuel Cell Car at Auto Show

by Christopher S. Knepper

DETROIT, MI - Honda displayed their fully functional FCX concept car at the North American International Auto Show in January.

The FCX runs on a hydrogen fuel cell that offers increased efficiency and smaller size than previous models. According to Honda, the FC fuel cell stack is 20 percent smaller and 30 percent lighter than previous fuel cells and allows them to design a more elegant vehicle than previously.

Despite the smaller size and lighter weight, the new stack produces 14kW more power than the old version, bringing the range to 270 miles.

The fuel cell stack produces 100kW of power via a proton exchange membrane technology. It runs on compressed hydrogen and the FCX has a 171 liter tank.

The only byproduct of a hydrogen fuel cell is water vapor, and Honda's new stack is designed so the water flows vertically, instead of horizontally, allowing gravity to boost the stack's efficiency.

The Honda FCX will also be available at the 2007 AFVI Expo's "Ride-N-Drive" April 1-4 at the Anaheim Convention center. Go to [afvi.org](http://afvi.org) for more information.

*Sunny & Share* is a labor of love, promoting alternative energy sources that are environmentally friendly.

# From The Editor:

by Christopher S. Knepper

Welcome to the inaugural edition of *Sunny & Share!* To tell the truth, I started this newsletter as a sample of my work for the portfolio assignment of my PR Management course at California State University, Fullerton. I chose alternative energy as the topic because it is one of my passions.

After I had created the first edition, I had so many ideas running around my head, bouncing around and colliding with each other like neutrons in a fission reactor, that I decided to expand it and continue. I redesigned the masthead and changed to a different piece of software (it takes longer to create, but I have more control over the elements on the page).

My plan for this is to try to get an issue out every few months, with articles and information that may be of interest to my friends and colleagues who care about the environment and being "green."

Being a solo project, though, I can make no promises. I am always on the lookout for new developments in green technology and alternative energy, but finding the time to write new content and produce a new issue may be a bit of a challenge.

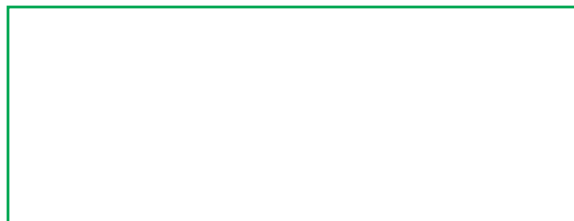
I can promise that I will keep abreast of new developments in the technology and do my level best to write informative, insightful articles on those developments. My only rule will be: No Petroleum!

Biogases (e.g., methane/natural gas) are a viable alternative to oil, so I'll include them. Many public utility vehicles (buses and garbage trucks) have been converted to run on compressed natural gas, and some auto manufacturers are offering CNG cars.

So, until next issue, Stay Green!

*Chris*

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