

residential design & build

inspiring architects and custom builders

06.09

High-end design,
world-class green

Building the 2009 HGTV Green Home
Harvesting wind power at home
Understanding under-counter appliances

National Semiconductor's

SolarMagic power optimizers are designed to dramatically improve the performance of solar photovoltaic (PV) systems impaired by real-world conditions. Built upon analog power management circuits, the power optimizers give back much of the power PV systems can lose to partial shade, panel aging and irregular array designs.

For more info circle #112



The Sunny Boy line of inverters from **SMA America** turn direct-current power generated by solar panels into usable household current. They are designed for residential and light commercial use. The newest models are certified to the UL 1741/IEEE 1547 standard, and have efficiencies ranging from 95 to 96 percent.

For more info circle #114



The Solar Star Conversion Kit from **SolaTube** is designed to boost the performance of existing passive attic vents and transform noisy- and energy-consuming vents into quiet and highly efficient solar-powered rooftop ventilators. The attic fan and Conversion Kit are designed with a leak-proof and high impact-resistant design.

For more info circle #115

Vaillant solar flat plate collectors absorb sunlight and efficiently convert the radiation into hot water.

The solar collectors work with existing water heaters to allow customers to have hot water, day and night. A screw-free frame presents a clean and polished aesthetic, and fewer connectors reduces possible energy loss.

For more info circle #113



SolarWorld provides complete solar electric systems under the brand name Sunkits for any kind of sloped roof. The mounting kit consists of modules, an inverter that has

been specifically chosen for the selected module type, and the mounting components. Each Sunkit is individually assembled to meet the customer's specific requirements. For more info circle #116



New **Square D** brand combination service entrance devices from Schneider Electric provide homebuilders the flexibility to offer a solar-ready home. The devices are suitable for use with a utility interactive inverter by featuring space for a back-fed inverter circuit breaker.

For more info circle #117



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For more info circle #118