

ABOUT MARK SNYDER

www.marksnyderelectric.com | www.gswps.com | www.greenribbonhomes.com

Mark Snyder is committed to the creation of a sustainable future and has been recognized worldwide as an expert on evolving alternative energy technologies and applications. Mark, a Master Electrician, Forensic Electrical Specialist, Inventor, and Officer in a publicly listed Energy company, is the descendent of 5 generations of family farmers and has been a commercial organic farmer for 30 years



MARK SNYDER
DAILY SHOW WITH JOHN STEWART

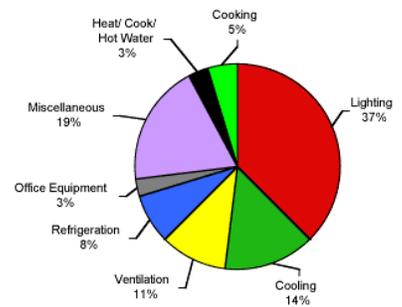
Mark's work has been the object of TV and other media commentary in the US, UK, Japan, Germany, and around the world on the web. Notable appearances included a segment on the Daily Show with Jon Stewart and the first green built episode of Extreme Makeover: Home Edition on ABC-TV



MARK SNYDER DESIGNED ENERGY SYSTEMS
FOR FIRST GREEN BUILT EPISODE OF
EXTREME MAKEOVER: HOME EDITION

From 1992-2002 Mark contracted to perform energy efficiency improvements in nearly 28,000 convenience and grocery stores in chains from coast to coast. Mark's contracting company was installing solar power to homeowners in the western states, from 1972 to 1996 off grid and from 1996 to the present both on and off grid. Mark is also a third party warranty provider, forensic electrician, and expert witness for San Diego Gas & Electric and has been so

for 28 years. In 2010-2011, Mark Snyder Electric (Mark's electrical contracting company) contracted to install poly-phase (smart meters) in San Diego and Orange Counties.



In 1998, in recognition of his understanding of our national electrical infrastructure and his commitment to excellence, Mark was selected by the Clinton Administration to serve on a White House Council to address the readiness of national infrastructure in anticipation of the Year 2000 Conversion.

A lifelong proponent of sustainable development Mark co-authored a bell weather paper early in 2001 published by the Sierra Club, supporting the region wide development of Solar Power for the Energy Engineers of America in part to replace a proposed gas fired 300 megawatt plant then under consideration.

Also recognized as a pioneer in waste to energy production, was trained in Europe with Dantrim International, a Danish company and world wide leader in biomass energy systems. In 1985 Mark designed and installed Southern California's first large scale bio-energy conversion project in San Diego County using agricultural waste to produce 100 kW of electricity and waste heat for 20 acres of greenhouses using peach pits from a cannery.



DARYL HANNAH AND MARK SNYDER
CELEBRATE OPENING OF BIO-WILLIE
STATION IN SAN DIEGO

In 2006 Mark co-founded Clean Air USA and partnered with Willie Nelson Biodiesel to bring clean alternative motor fuels to California. Mark was selected by Willie Nelson to accept an EPA Achievement Award, issued as a result of Mark's work in opening the State's first Bio-Willie station.



MARK SNYDER ACCEPTS
EPA AWARD
FOR WILLIE NELSON

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Mark's long standing expertise in solar power and in particular high efficiency passive solar tracking systems, led to Mark being selected to build the world's largest passive solar tracking array for the Alpine United School District in Alpine California



Mark's dedication to finding energy efficient solutions to home heating and cooling costs, led to his development of the Silent Night Aire™ super energy efficient, clean air, home ventilating, space heating, and cooling system. The Silent Night Aire™ line of products dramatically reduces the cost of air conditioning and flush harmful pollutants out of homes silently and seamlessly each night or day.

Mark's work in energy efficiency, healthy green building, solar power, and affordable green housing, found expression in the construction of Green Ribbon® manufactured and modular homes employing all those principles. Ten prototype homes were built under the supervision of the California Department of Housing and Community Development. Mark was later named by California's leading manufactured home fabricator, Hallmark Southwest Corporation, to be their first Green Building Advisor.

Mark has championed solar rights in California by opening master metered condo associations and manufactured home parks for solar power installations thereby enabling access to solar power to 3 million Californians.

In 2009, Mark was appointed Chief Technology Officer for Enertopia Corporation (TOP: CNSX), www.enertopia.com and has been involved in piloting an energy efficiency project for one of Canada's largest restaurant chains. The first store was completed in Vancouver, BC. Canada in 2011

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Mark Snyder demonstrates mobile, solar powered, water purification units to Iraqi Ministers of Water and Power

In 2009, Mark created and manufactured 325 solar powered, mobile, water purification systems for the Ministry of Iraq (seen in photo at left with Mark) and trained Iraqi engineers to install them on sites in Iraq.



Solar powered, mobile, water purification units being manufactured at Mark's plant

Mark Snyder's solar powered, mobile, water purification systems are providing clean water daily to 600,000 displaced Iraqi villagers.

In early 2010, Mark created the Enertopia Multi-function Utility Structure (EMPUS) to provide solar electricity, solar distilled clean water, water pressure, domestic solar hot water, solar thermal heating, solar hot air space heating, solar cooling, sanitation, and communications for remote villages in the Free Republic of Sudan in North Africa.



Iraqi crews deploy Solar Powered Water Purification units in Iraq



Also in 2010, Mark modified his EMPUS design for the Plateau Solar Project to serve "off grid" Native American Tribal Elders (Navajo and Hopi) living on the Colorado Plateau.

In 2011, the first EMPUS was built and installed in Leupp, Arizona for an off the grid Navajo family that was in great need. The system was donated. That same year, Mark exclusively licensed Hallmark Southwest Corporation to factory build Green Ribbon® Net Zero Energy manufactured and modular homes.

In November 2011, the first of 15 Hallmark Southwest Corporation Green Ribbon® Net Zero Energy homes is designed and fabricated for the Our Lady of the Desert Benedictine Monastery in Northern New Mexico. At this same time, the EMPUS building was redesigned into modules and called the "EMPUS Bump"



Benedictine Sisters receive donation for Green Ribbon® Guesthouse

In December of 2011, the Plateau Solar Project is started for 37 off grid elders to provide solar power, water storage, water pressure, solar hot air space heating and cooling, electrical, plumbing, gas, safety inspection, and high efficiency modular structures to house systems.

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In July 2012 Mark traveled to Germany and Nigeria in response to a request for assistance from the Governor of the Nigerian State of Adamawa, Nigeria to develop a municipal solid waste to electrical energy resource in the state's capitol city of Yola, population of 250,000.



Mark is now in the process of completing a site specific feasibility study to design and install the waste to energy system and increase the amount of available electrical power for the region's electric power grid which presently operates only a few hours each day.



Mark's work in Nigeria will also address the potential for installing solar power systems on both new and existing homes and buildings and bringing electrical power, clean water, sanitation, and energy efficiency to remote mountain villages and other communities.



Mark Snyder presently has 14 patents and partner patents in the area of solar power, water purification, green housing, heating, cooling, and electric and hybrid motor vehicles to grid inter-connection for energy storage.