## Core Team:

**Reinhold Ziegler** ~ CEO & Founder, Reinhold is educated as a mechanical/electrical engineer and industrial designer. He is a pioneer in the development of appropriate technology and renewable energy systems: Co-author of the solar village classic: Village One; ; Builder of the U.S. Department of Energy's *Energy Pavilions*; Founder of Earth Lab Institute; Staff member of the Farallones Institute's *Integral Urban House*; Third major wind farm developer at Altamont Pass; Holder of several energy utility and design patents; Systems architect of building-integrated PV and Wind turbines, Designer of aeroponic and aquaponic growing systems; Bioneer of carbon sequestration through living machines, bio-char & agro-forestry.

**Laurie Rolfe** ~ COO Project Specialist, Laurie's education and professional background is in architecture, design and capital project management: design studio manager for the architectural firms of The Office of Thierry Despont, Norman Rosenfeld and Rivkin Weisman in New York City and NBBJ and The Ratcliff Architects in San Francisco and a former capital projects manager for the University of California and Habitat for Humanity.

**Tim Butts** ~ BBA, VP of Green Buildings. As a former Net Zero Builder Tim has accumulated a vast knowledge of energy systems, green building systems, and enterprise development. His energy accomplishments include over twenty professional certifications which have earned him a position as a professional workforce development trainer. Tim's work facilitated the green building movement in California and his efforts earned him the "Energy Efficient" award. He has been instrumental in developing our advanced Energy Efficient Green House program. For the past fourteen years he has maintained a rigorous daily regime that promotes our sustainable world views by his organic, raw, vegan, athletic lifestyle.

## Associates:

**Bob Leff,** Synergy master solar and wind electrical contractor.

**Les Hamasaki,** Master Planner, President & CEO International Green Technology Institute, Inc. www.i-gti.org Our green 501-c3 R&D Institute and technology incubator.

**Mark Chasan,** Whole System Integrator, Lawyer, Digital Media Pioneer, Social Eco Entrepreneur. CEO of A.W.E. LLC. www.awelife.com & Transformative Capital LLC.

**Antonio C Pinto**, Founder & CEO Synergy Americas Consortium, Inc. Solar Energy systems designer & engineer, CAD expert. Latin American green energy market expert.

**Francisco Javier Heras Guillen,** M.C. Energy systems designer and electro-mechanical engineer. Founder of Synergy Kapoverdia LLC, Mexico City.
www.kapoverdiarenovables.com.mx

Hydroponic-Aeroponic Solar-Wind Greenhouse , 2007


Oklahoma Medical Research Foundation, 2008 *Solar & Windtecture*

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# Synergy International Inc.

Eco-Sustainable Energy Systems
Cleantech Innovation Management
Green Architecture & Village Design


*The San Francisco Public Utilities Commission Building 2007*
*Architecture: KMD | Stevens Solartecture: Reinhold Ziegler*

*We bring over thirty years of renewable energy and appropriate technology experience to the built environment.*

# *THINKING GLOBALLY… ACTING LOCALLY*

**SYNERGY International Inc** is a consortium of successful professionals in green architecture, solar, wind, solar concentrator manufacturing, & green house systems complimented by sustainable land, and real estate development. We are a one-stop source delivering turn-key Solartecture® , integrated with renewable energy systems, and true-green building elements and components.

**www. synergyii.com** re-designs buildings and open land into green and healthy environments powered by building-integrated renewable energy systems or ground mounted wind and solar energy systems.

## Energy Conservation and Savings

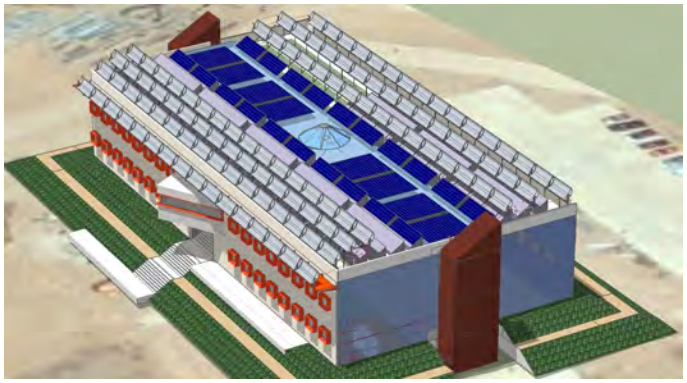
We retro-commission existing commercial buildings, improving operational efficiencies by 15 – 35%. Preliminary walk-through site surveys are followed by the installation of wireless sensors and data loggers which provide real-time data on the performance of the building or campus. Study of this data results in a decision to invest in those measures which have the highest rate of return on investment.

Typical cost to achieve a saved watt (*a negawatt*) is $.50

## New Energy Generation

Our core expertise is designing and installing building-integrated solar, wind, hybrid systems on existing and new structures. This proprietary *Solartecture* is composed of architectural energy elements. The energy may be utilized on-site, or sold through a Power Purchase Agreement (PPA) to a local utility. Building owners become their own power companies.

*Design and installed cost of a Solar PV, Solar Thermal Concentrator or Wind System runs typically $4.00 per watt.*



Solar Concentrator Chiller System, Holcim-Apasco Mexico 2010-11

## Land and Infrastructure Projects

***Solar Farms*** **-** As design engineers and developers of ground-mounted and building-integrated PV and solar thermal arrays, we build, operate, and transfer these arrays into long-term service with 25 year warranties. We also private-label our own photovoltaic panels, inverters, and the balance of systems. We are your farming partners whether you are growing food in our green house system or making electrons.

***Wind Farms*** **-** Designers and builders of the third major wind farm in the world at Altamont Pass, CA, in 1981. As bonded site surveyors, we determine the wind spectrum, matching this data to appropriate wind turbines for deployment on buildings and remote landscapes.

***Bio Farms*** **-** Designers and architects of bio-intensive green buildings. We generate roof-top solar energy for growing our proprietary SYNPONIC® Green House vegetables, nutriceuticals, and pharmaceutical crops at a factor of 8 over conventional farms, with only 1/20$^{th}$ of the water.


## EcoVillage and EcoResort Design

Our eco-systems approach to development has allowed us to integrate energy, buildings, water, green house food production, agriculture, waste-treatment, and transportation into a holistic living design that generates a lifestyle of health and sustainability. These regenerative designs are being viewed as the solution for global eco-city settlements and for much needed economic job creation and economic stimulation.