

Core Team:

Reinhold Ziegler ~ CEO & Founder, CTO Reinhold is educated as a mechanical and 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*; co-founder and member of the R&D team of Aero-Power Systems, Inc.; builder of the U.S. Dept. of Energy's *Energy Pavilions*; a founder of Earth Lab Institute; a staff member of the Farallones Institute's *Integral Urban House*; the second major wind farm developer at Altamont Pass; a holder of several energy and green patents; designer of aeroponic and aquaponic growing systems; system co-developer of carbon sequestration through living machines, bio-char & agro-forestry and a former US Peace Corp. trainer.

Laurie Rolfe ~ 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.

Alexandra Post, Ph.D. CFO Alternative energy finance and law Alexis literally offers a world of experience with a global history in business growth in new markets and emerging technologies. Finance and marketing consultant for major corporations in India, Thailand, and Indonesia. Growth of new clean tech investment opportunities, including co-initiating a wind turbine company, a multi-use community development and a clean tech investment fund. Ran a London-based mergers and acquisitions company, while teaching university finance and management. Capital sourcing, deal management, due diligence, angel investment, contract negotiations Fluent in English, French, German, and Spanish

Associates:

Christopher H. Belknap, Principal Architect, Master Planner Design Earth Synergy www.designearthsynergy.com

Bil Becker, CEO of Aerotecture International www.aerotecture.com, Professor of Design,

Gary Bailey, AIA, Architect of Parabolic Concentrator energy integrated buildings. www.solargenix.com

Roger Engstrom, PE, Mechanical Engineer, MBA, Real Estate Broker.

John Deneen, Engineer, Chief Science Officer, researcher of new processes and materials.



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

LEED® 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, and micro-turbine manufacturing, also...sustainable land, product and real estate development. We are a one-stop source delivering turn-key LEED-certified architectural designs, integrated with renewable energy systems, and true-green building components.

SYNERGYII designs commercial 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. re-design.

Typical cost to achieve a saved watt (a negawatt) is \$1 to \$1.50

New Energy Generation

Our core expertise is in designing and installing building-integrated solar, wind, hybrid systems on existing and new structures. This proprietary *Solarstructure* 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 Concentrator and Wind System runs typically \$7.00 per watt.



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 or making electrons.



Wind Farms - We were the 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 - As designers and architects of bio-intensive green buildings, we generate roof-top energy for growing large amounts of vegetables, nutraceuticals, and pharmaceutical crops at a factor of 8 over conventional farms, with only 1/20th the water.



EcoVillage and EcoResort Design

Our eco-systems approach to development has allowed us to integrate energy, buildings, water, 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 much needed economic stimulation.