



An International Forum Connecting People with Hands-On Solutions to World Poverty

RENEWABLE ENERGY INTENSIVES

Pre-Conference Workshops
September 29–October 1, 2003

Renewable Energy 101 (2 days)

Monday, Sept 29 and Tuesday, Sept. 30

Presenters

Roger Taylor, Peter Lilienthal, Joe Wenisch
National Renewable Energy Laboratory

Since 1994, the National Renewable Energy Laboratory's Village Power Group has worked on ways to match renewable energy technologies with international, rural energy needs. With a focus centered on water supply, lighting, communications, recreation, health services, education, food supply, enterprise, ice making, water purification, desalination, battery charging, and water pumping, they developed a multidisciplinary team, an application- and village-need-driven focus, and tested a broad set of in-country activities. They developed applications, testing systems, mapping resources, analyzing options; initiated pilot projects, conducted outreach, training, and information activities. This seminar shares their lessons learned and ways to initiate an integrated approach as a model for rural electrification with renewables. • General Overview of Renewable Energy



Technologies and Applications

- Resource Assessment: Solar, Wind, Biomass
- Technologies: Solar Electric (Photovoltaic) Technologies, Concentrating Solar Thermal Power, Solar Water and Air Heating, Biomass Conversion, Geothermal, Wind, Fuel Cells and Hydrogen
- Applications: Wind, Large, Utility Scale, Small, Village Scale and Applications Specific, Hybrid Power Systems
- Buildings: Building Integrated PV, Building Design
- Analysis and Modeling: Energy 10, HOMER
- Policy and Deployment Issues: Training Accreditation and Technology Certification, Climate Change: the UNFCCC and Current State of Affairs
- Policies for Renewable Energy Promotion: a Comparative Overview, Lessons Learned from the Village Power Experience

(2 more workshops – continued on back)

For more information on the conference, or to register, contact Sustainable Resources at:

www.sustainableresources.org • email: info@sustainableresources.org

717 Poplar Ave. • Boulder, CO 80304 • Tel 303-998-1323 • Tollfree 888-317-1600 • Fax 303-449-1348



Renewable Energy for the Developing World

Wednesday, October 1 (1 day)

Presenters

Laurie Guevara-Stone

Johnny Weiss

Solar Energy International, Carbondale, CO



Renewable energy resources of solar, wind and water can improve the quality of life and promote sustainable development throughout the world.

Renewable energy systems are practical, reliable, cost-effective, and healthier for people and the environment. This one-day seminar focuses on applications for renewable energy technologies in developing countries: how to successfully accomplish sustainable development projects with renewable energy, effective technology transfer methods as well as setting up infrastructure and the economics and financing of renewable energy projects. Case studies will be presented on solar cooking, rural household

electrification, appropriate building technologies, rural health care, micro-enterprises utilizing renewable energy, and discussions on issues such as being a woman in a traditionally male field. Renewable energies provide an opportunity that can break the chain of gender bias and equip women with the necessary skills to participate in the design, installation and maintenance of systems in their communities.

SEI works cooperatively with grassroots and development organizations to meet sustainable development goals with renewable energies and provides education and training to decision makers, technicians and users of renewable energy sources. They also provide the expertise to plan, engineer and implement sustainable development projects. SEI professionals have project and training experience in the Americas, Africa, Micronesia and the Caribbean. During the past 12 years, they've provided services to the Pan American Health Organizations, Non-Governmental development organizations (NGOs), foreign, national and state governments, universities and individuals seeking the benefits of renewable energy. SEI personnel have also developed comprehensive education programs to transfer renewable energy technologies to less developed countries. Programs stress in-country training of trainers, decision makers, technicians and end-users. Developing local and regional capabilities at each of these levels is critical to successful renewable energy utilization. Standard training packages are offered, varying in length from one day to three months. Custom programs are developed to meet particular program needs. For more information see <http://www.solarenergy.org>



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