

# Thank You to Our Supporters!

## GRANTS (\$20,000+)

CO Governor's Energy Office  
USDA

## GRANTS (\$5,000 - \$19,999)

Allen-Heath Memorial Fund  
Ruth H. Brown Foundation  
Thomas P. Melly Foundation  
Xcel Energy

## GRANTS (\$1,000 - \$4,999)

Captain Planet  
Community Office of Resource Efficiency  
Delta-Montrose Electric Assoc.  
El Pomar Foundation  
Pitkin County  
Snowmass Village  
Town of Carbondale

## DONATIONS

Alford Ashley  
Andy Black  
BJ Adams Company  
Sharon & Michael Klein  
Leah Zugschwerdt

## EQUIPMENT DONORS

AEE Solar  
American Solar Electric  
Apollo Solar  
Aurinco  
C. Crane Company  
Conergy  
Direct Power & Water  
EPV Solar  
Anibal Guevara-Stone  
Aaron Hohman  
Home Power magazine  
HydroScreen  
Iron Ridge  
Kaco  
Magnum  
MidNite Solar  
MorningStar  
Multi Contact (Shoals Tech Group)  
OutBack Power  
Sanyo Solar  
SMA  
Stark Roofing  
Steca  
Sunsense  
SunWize  
Trojan Battery  
UniRac  
Xantrex

## SCHOLARSHIP DONORS

Kris Sutton & Kathy Swartz  
Community Office of Resource Efficiency  
USDA

## SUSTAINING

### MEMBERS

(\$1,000+)

CENSOLAR  
American Powernet Services LP

## BUSINESS

### MEMBERS

(\$500 - \$999)

Capilano Electric Ltd.  
Continuum Energy Solutions  
Dave Peterson Electric  
Tony Diaz  
DR Contractors  
Eagle Valley Home Builder's Association  
ECD  
EnvironX LLC  
Hayward Electric Co.  
One Way Electric  
OnGrid Solar Energy Systems  
Structural Associates Co.  
Michael & Elizabeth Thele

## FAMILY MEMBERS

(\$250 - \$499)

Fred Gatewood  
Scott Hawkins  
Mark Intong  
Al Kaopuiki  
Sheryl & Mark Litwack  
Sharon Mason-Foster  
Tom McCullough  
James Ranum  
Kumar Vadamuthu  
Eclipse Technologies, LLC  
Gruene Energy Solutions  
K2 Solar, Inc.  
Kleffner Group  
Mohave Unplugged  
Mountain View Wind Power  
Solar-Wise, LLC.  
Starfire Energy, LLC  
The Alternative Energy Co.  
Vegas Electric  
Webb Solar Realty, LLC

## COMMUNITY

### MEMBERS

(\$100 - \$249)

A & M Custom Marketing & Promotional  
Leo Acosta  
Lisa Adolphe

Advanced Energy Solutions  
Olutoye Agunloye-Lawrence  
Akpavi International Holding Ltd.  
Mark Allen  
AMERESCO Solar  
Rick Appel  
Atlantic Electric Supply  
Jeff Auxier  
Lary Bannasch  
Gerry Barrett  
Dan Becker  
Jack Bell  
Lisa Benson  
Susan Bilo  
Boldt Building & Construction  
Patrick Brown  
Ricardo Brown  
Martin Buffam  
Chris Calabro  
Gene Calhoun  
Celentano Energy Services  
CES, Inc.  
Chicago Solar Coperation  
Clyde Christianson  
Colorado Electric Inc.  
Colorado Mountain Vacations  
Crawford Creek Electric  
Custom Roofers III  
Dan Dahlke  
DC Power & Light Co  
Donn DeBaun  
Clay Deffenbaugh  
Juan Delacruz  
Design Build International  
Divine Design, LLC  
Skeeter Dorywalski-Boren  
George Duchateau  
Jean B. Dupoux  
Earthen Elements  
Ecocentric Energy Solutions  
Allison Elliot  
Energy and Sustainable Design  
Enoh Enoch  
John P. Fambrough  
Robert Ferriere  
Robert E. Foster  
Jeremy & Angela Foster  
Patricia Franklin  
Leonard Gabler  
Glen Gallo  
Gregory Gardner  
Gardner Bradford LLP  
Michael Jason Garsee  
Nader Geleil  
Get Wired  
George Gill  
Max Girouard  
David Glover

Tyler Goepfert  
GOMO Holdings LLC  
James Gradwell  
Brad Grant  
Green Energy Systems Corp  
Greenleaf Electric  
Eric Hale  
David Hale  
Colin Hamilton  
Karli Hansen  
Elmer Hayes  
Healthy & Hardy, LLC  
Ronald Heath  
David Henry  
Jason Hoag  
Michel Horne  
Joel Huettig  
Randy Jasen  
James Kadingo  
Mark Kavasch  
Nasir Khan  
John Kondos  
Lloyd Korhonen  
Tristan Kreager  
Kroger  
Arunas (Roo) Kutkus  
Chris Lacey  
Landcare Research NZ Ltd  
M.C.S.  
Linda Lung  
Susan Mahoney  
John Manouse  
Markey Industries  
Rod Martin  
Charles McCallister  
Kevin McKee  
Jayson McMahan  
MDE Electric CO  
Miguel Medina  
Ovidio Menendez  
Jay Meyers  
Robert Milligan  
Josh Moman  
William Moody  
Doug Mooney  
Yvonne Moss  
Mountain High Electric  
Scott Mowry  
Henry Kanjobe Mwandemere  
Myers Energy Solutions  
Tei Narteh  
Dave Nelson  
NexuSolar  
Terry Noblet  
NREL  
Oasis Gardens  
James Odell  
Michael O'Hara  
Richard Ottero  
Rick Otto  
Outback Power Systems  
Curtis Paton  
Dan Perata

Perpetual Plumbing and Heating  
Phillips Electrical Systems  
David Pitts  
Paul Platt  
Bruce Plenk  
Eric Pratt  
Project Solar, Inc.  
Brian Pruitt  
Rick Puhala  
Pam Quigley  
William Ratcliffe  
Janet Razbadouski  
Ready Solar, Inc.  
Repower SOLUTIONS  
Arthur Rothman  
Jason Roy  
Damon Scalfaro  
Paul Scholl  
SDT Contractors, Inc.  
SeaBright Solar LLC  
Sextant Technologies Inc.  
Grady Simmons  
Simply Efficient, LLC  
Eric Sison  
Skylights NW  
Steve Sloan  
Steve Smith  
Cecil Smith  
Jeffrey Smoker  
SolarCo  
Hank Statscewich  
Geoff Stegmeyer  
Stevens Electric  
William Sullivan  
Sunbeam Power  
Sunshine Tracker, Inc.  
Mick Sutton  
Sean Tanaka  
Thermo-Tech Windows  
Ernest M. Troth  
Pete Vash  
Dave Victor  
Way out Investments  
Jay Wells  
Joe Wesnitzer  
White Dog Solar  
Michael Whitehead  
Jeffrey Wilson  
Thomas Wright  
David Zachow  
Andrea Zappaterra

## ALL OF OUR INDIVIDUAL FRIENDS & SUPPORTERS

621 Members < \$100

# SEI 2008 Annual Report

Renewable Energy Education for a Sustainable Future



## SEI's Mission

Solar Energy International (SEI) was founded in 1991 as a non-profit educational organization to help others to use renewable energy resources and sustainable building technologies through education and technical assistance.

## Outreach Programs

- Solar In the Schools (SIS)
- INVEST
- Native American Program
- International Trainings
- Scholarship Program

*Solar Energy International is an educational non-profit Colorado corporation. SEI is recognized by the IRS as a tax-exempt charitable organization under section 501(c)3 of the Internal Revenue Code.*

## Renewable Energy Education Program

- In 18 years, over 9,400 people from all 50 states and 67 countries have attended SEI's REEP Program.
- In 2008 SEI offered 52 hands-on workshops and twelve online courses.
- 2,598 participants attended workshops and online courses in 2008, including 139 international students.



Solar Energy International is a nonprofit educational organization and an Equal Opportunity Institution and Employer. SEI is independent from any manufacturer, dealer, distributor, or any other renewable energy commercial enterprise.

## SOLAR ENERGY INTERNATIONAL

P.O. Box 715 • Carbondale, CO 81623 • tel: 970.963.8855 fax: 970.963.8866  
39845 Mathews Lane • Paonia, CO 81428 • tel: 970.527.7657 fax: 970.527.7659  
sei@solarenergy.org • www.solarenergy.org





## Staff

Rachel Connor	Samantha Pickard
Kathy Fontaine	Sandy Pickard
Paul Gibb	Cindy Smith
Dan Giese	Laurie Stone
Matthew Harris	Kris Sutton
Cindy Hotchkiss	Kathy Swartz
Soozie Lindbloom	Jeff Tobe
Kevin Lundy	Laura Walters
Brian Mehalic	Carol Weis
Khanti Munro	Johnny Weiss
Dawn Ogren	Breccia Wilson
Tawnya Parker	

## Board of Directors

Jeff Dickinson  
Energy and Sustainable Design

Jock Jacober  
Jacober Brothers Construction

Jane Koger  
Homestead Ranch

Linda Lung  
National Renewable Energy Laboratory

Don Phillipson  
Phillipson Sustainable Energy Options

Johnny Weiss  
Solar Energy International

## Advisory Council

Dr. Donald W. Aitken  
Donald Aitken Associates

Dr. J. Douglas Balcomb  
National Renewable Energy Lab

David Barsamian  
Alternative Radio

Pliny Fisk III  
Center for Max. Potential Bldg Systems

Alex Hillinger  
Good Chemistry

Joe Jordan  
NASA

Barbara Kerr  
Center for Sustainable Living

Thomas A. Lawand  
Brace Research Institute

Philip Livingston  
Solar Consultant

Amory Lovins  
Rocky Mountain Institute

Maureen McIntyre  
Consultant

Karen & Richard Perez  
Home Power Magazine

Randy Udall  
Community Office of Resource Efficiency

Sam Vanderhoof  
Clean Power Associates

Neville Williams  
Standard Solar Inc.

Dr. Robert Willis  
Intergrid

# Renewable Energy Education Program

SEI's Renewable Energy Education Program (REEP) teaches the practical use of solar, wind and water power. Our workshops give individuals the knowledge and skills to design, install and maintain renewable energy systems and to build state-of-the-art natural homes that are efficient, practical and earth-friendly.

## 2008 REEP Workshops

- |   |   |
|---|---|
| • Advanced Photovoltaics                          | • PV Lab Week                               |
| • Advanced PV Online                              | • RE for the Developing World               |
| • Appropriate Technology for the Developing World | • RE for the DW - Hands-On                  |
| • Biodiesel Fuel                                  | • Renewable Energy for Educators            |
| • Building for the Future                         | • Residential Wind Power                    |
| • Building for the Future Online                  | • Solar & Radiant Heating Systems           |
| • Designing & Building Natural Homes              | • Solar Hot Water                           |
| • Ecology, Permaculture & RE                      | • Solar Industry Seminar                    |
| • Grid-Tied PV                                    | • Solar Water Pumping                       |
| • Introduction to Renewable Energy                | • Straw Bale Construction & Natural Plaster |
| • Micro-Hydro Power                               | • Successful Solar Businesses               |
| • PV Design & Installation                        | • Women's PV Design & Installation          |
| • PV Design Online                                |   |

## SEI's Hands-on Training

Alumni of SEI's 2008 REEP Program gained hands-on experience in installations and lab exercises. REEP projects represent practical applications of the latest commercial technologies and products in PV, wind, solar thermal, micro-hydro, and sustainable building.

## Guest Instructors & Industry Representatives

SEI instructors are leaders in their fields, offering the most up-to-date information in renewable energy technologies. In 2008, over 100 guest instructors and industry representatives presented in our workshops.

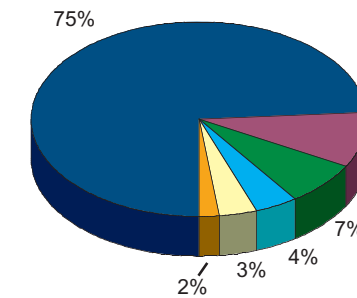
## Workshops Were Offered in 20 Locations

- |                              |                             |
|------------------------------|-----------------------------|
| • Austin, Texas              | • Mastatal, Costa Rica      |
| • Bahia de Caraquez, Ecuador | • Olivebridge, New York     |
| • Carbondale, Colorado       | • Paonia, Colorado          |
| • Chiapas, Mexico            | • Pittsboro, North Carolina |
| • Dúrika, Costa Rica         | • Salt Lake City, Utah      |
| • East Charleston, Vermont   | • San Diego, California     |
| • Fontana, California        | • Sandy Hook, New Jersey    |
| • Fort Collins, Colorado     | • Guemes Isl., Washington   |
| • Honolulu, Hawaii           | • Totogalpa, Nicaragua      |
| • Manteca, California        | • Tucson, Arizona           |

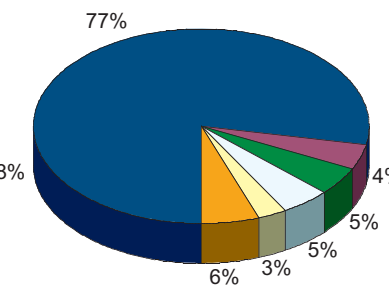


# Financial Report Summary 2008

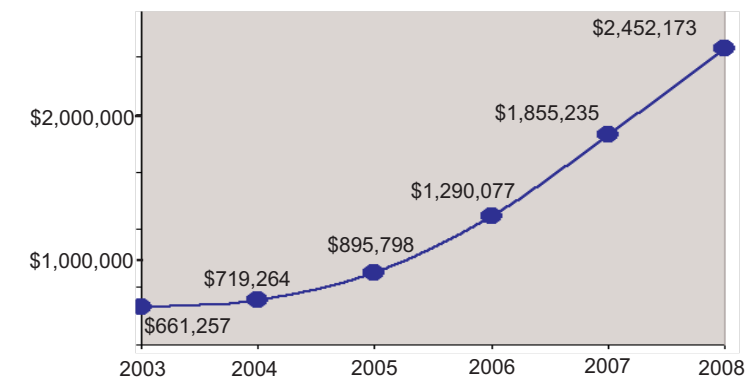
## INCOME



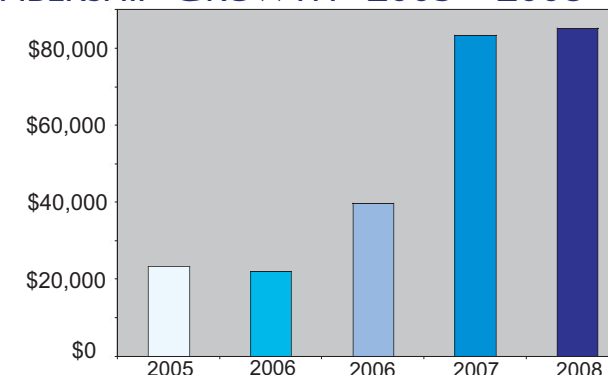
## EXPENSES



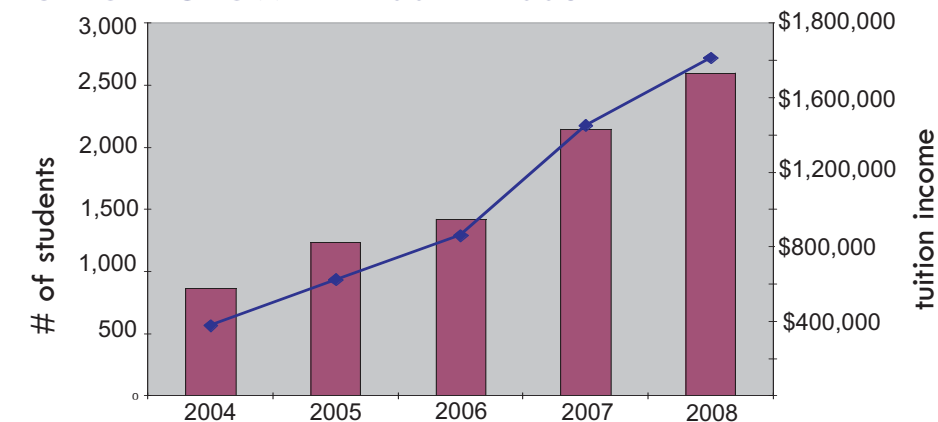
## INCOME GROWTH 2003 - 2008



## MEMBERSHIP GROWTH 2005 - 2008



## TUITION GROWTH 2004 - 2008



	INCOME	EXPENSES
<b>EARNED INCOME</b>		
Workshops	\$1,814,819	\$1,724,078
Contract Teaching	\$ 220,665	\$ 90,513
Sales & Books	\$ 180,006	\$ 101,852
<b>CONTRIBUTED INCOME</b>		
Memberships	\$ 85,383	\$ 57,420
Development	\$ 103,413	\$ 108,609
Admin & Overhead	\$ 47,887	\$ 125,156
<b>Total</b>	<b>\$2,452,173</b>	<b>\$2,207,628</b>

## ASSETS

Cash & Current Assets	\$533,271
Fixed Assets (including land, building, equip.)	\$470,088
Endowment	\$391,567
<b>Total Assets</b>	<b>\$1,394,926</b>

## LIABILITIES & NET ASSETS

Current Liabilities	\$ 29,511
Deferred Tuition	\$441,356
Land Mortgage	\$213,721
Net Assets	\$710,438
<b>Total Liabilities &amp; Net Assets</b>	<b>\$1,394,926</b>

- # of students
- ◆ tuition income



# SEI 2008 Outreach Programs

SEI provided training and technical assistance to groups worldwide.

## Scholarship Program

Traveling to the United States has become increasingly hard for our international students, due to visa requirements and the cost of travel. We try to offset these costs for eligible developing country residents by offering tuition scholarships. People from over 60 countries have attended SEI workshops, many thanks to scholarships supported by our members. SEI also offers partial tuition scholarships to low-income participants from the United States and other industrialized nations.

In 2008 SEI offered 77 full and partial scholarships.

Cat working on Brad Pitt's "Make It Right" PV project in the Lower 9th Ward of New Orleans. ▶

"Soon after the SEI Women's PV workshop, one of the really great opportunities I had was installing 5kW solar arrays for Brad Pitt's "Make It Right" Project for redevelopment in the Lower 9th Ward of New Orleans, devastated by Hurricane Katrina. I was also invited by Global Green of NOLA to teach a Women's Introductory Solar Workshop. Thanks to SEI scholarships I could attend their wonderful Basic and Advanced PV training. It would not have been possible without that help."

- Cat, SEI women's scholarship recipient, 2008



## SEI EcoCampus

SEI is now officially a sun, wind & water powered organization.

In 2008 the Solar Hot Water class installed a single collector solar thermal system which supplies hot water to our student & staff kitchen area. In addition, we installed a PV powered DC refrigerator.

The solar demonstrations at the SEI campus also include the three real world PV systems that our classes use in trainings - grid-tie, grid-tie with battery backup, and a stand-alone system, as well as a developing world PV LED lighting system, a solar hot air system, solar water pumping system, and many solar cookers.

The Micro-hydro workshop installed a low head, high flow micro-hydro system in a creek that runs through the SEI property. This system charges the batteries on a DC water pumping system which does all the watering in our gardens on the property. All of this combined with the 2 kW wind generator installed in the 2007 SEI Wind workshop allows the SEI ecocampus to generate enough renewably generated electricity to offset our usage, although we still have a very substantial propane bill for heating.



# SEI 2008 Outreach Programs

SEI provided volunteer training and technical assistance to groups worldwide.

## INVEST Program

SEI offers alumni an opportunity to participate in INVEST, International Volunteers in Environmentally Sustainable Technologies. SEI alumni apply to volunteer overseas with one of our partner organizations to help bring renewable energy technologies to communities in the developing world. Volunteers install PV systems on rural health centers, teach rural farmers about solar water pumping, install micro-hydro and wind systems to power rural communities, or help build sustainable houses -- while meeting new people and experiencing new cultures.

In 2008 two INVEST volunteers worked with Grupo Fenix in Nicaragua. Grupo Fenix researches, develops and applies appropriate, renewable energy technologies in Nicaragua.

An INVEST volunteer tests a Nicaraguan made PV module with a Grupo Fenix technician ▶



## Solar In the Schools

SEI's Solar In the Schools Program (SIS) targets grades K-12 and focuses on experiential learning. The goal is to have students understand energy as it relates to all living things on the planet. SIS emphasizes critical thinking skills by exploring energy choices, costs, and solutions within individual communities. In the 2007-2008 school year, SEI presented in 18 schools throughout Colorado, teaching renewable energy to over 2400 students.

In 2008 SEI held our second annual Renewable Energy for Educators workshop in which 22 teachers from around the country and four international participants gained the confidence and knowledge needed to teach renewable energy.



▲ School children show off the solar powered fans they made in the SEI SIS training.

## International & Native American Trainings

SEI responds to in-country opportunities and travels around the world training people in renewable energy technologies. The trainings include decision-makers, technicians, and end-users. Our hands-on approach helps people incorporate these technologies into sustainable development projects.

SEI teamed up with Engineers without Borders and SunEnergy Power International to provide a week-long hands-on solar photovoltaics training for engineers in the West Bank, Palestine. The class included 11 engineers from several cities throughout the West Bank. Two engineers from Gaza joined the first day of training by way of video camera linkup. The training included basic design and maintenance, and applications to real-life examples in Palestine.

PV training in Palestine with SEI instructor Walt Ratterman ▶





# A look at 2008 in photos

Teachers in the RE for Educators workshop showing off their solar power. ▶



Making adobe blocks in the Designing & Building Natural Homes workshop ▶



The PV Design & Installation workshop on Guemes Island, Washington ◀



Plastering a wall in the Strawbale Construction and Natural Plaster workshop ◀



Wiring the power center in the PV Lab Week workshop ◀



Installing PV modules in the Women's PV Design & Installation workshop ▼



Installing a PV system in the Renewable Energy for the Developing World workshop in Nicaragua ◀



Wiring up the control center for the PV system in Ecuador in the Ecology, Permaculture and RE Workshop ▶



Preparing to raise the wind tower in the Residential Wind Power workshop ◀

