

Solar Washington

Newsletter 3/1/03

Volume 1, Issue 6

Solar Washington, 2223 NW 43rd Ave, Camas WA 98607 360-834-0674

Special Interest Articles:

- President's Letter
- Article from Winter Sun Design Seattle WA
- Solar Cookers from Martin Nix, Seattle WA
- Color Coded Areas of INTEREST
- MEMBERSHIP FORMS



Individual Highlights:

Mike Nelson (Western Sun), Chris Herman (Winter Sun Design), and Tom Starrs (Schott Applied Power) are all planning to go to the American Solar Energy Conference in Austin TX this year. The Conference is June 21-26th. Contact www.ASES.org for more information.



SPRING !!

The purpose of this newsletter is to provide the people of Washington State information about Solar Energy. We want the content to be educational and factual to help you make energy and social decisions for your lifestyle. Any comments or articles that

you feel would benefit your community are welcomed. We will inform you about the advantages of Solar Energy and help you understand that Solar Living can work in the Evergreen State of Washington.

The Logo for Solar

Washington was created by Mike Nelson and symbolizes the "green" concern for our state. It also defines our mission to promote wide utilization of solar energy in the State of Washington. Any comments or suggestions for enhancing our mission to educate will be welcomed. Please mail your requests to:

Solar Washington
2223 NW 43rd Ave
Camas, WA 98607

Solar Washington is entirely a volunteer organization.

Specializing in Members' Focuses

After much thought I have come to a conclusion. Solar Washington's Newsletter, especially the one we Email, should be specializing in three distinct, yet related, areas. These areas are: General Information, consisting of articles that people write about their solar experiences; second, the Education of Solar defined for the educators from our membership pool; and thirdly, the Solar Business,

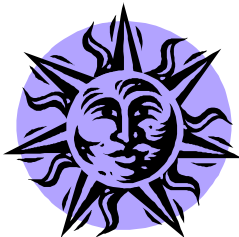
for the ones who want hints of how to install or changes to local policies. I realize I might be biting too much to handle, but if I can make this newsletter work for such a diverse group at least in some way I think it is of benefit. The Newsletter is color coded to help you find what is going on in your particular group. Yellow for General info; Blue-for Education; and Green- for Business.

I definitely would like your input as to content and your contribution for making this Newsletter a State worthy information packet. As more information about solar opportunities arise this methodology will definitely make it easier for you. There are a lots of great things happening in solar and I am glad you are a part of this way of Life.

My email is Zagunis@pacifier.com
Subject: SW Newsletter:



Solar Solution by Chris Herman



“People get regular, detailed feedback on their gasoline consumption every time they fill up the tank. What if customers could get similar feedback on their energy consumption?”

The Solar Solution

by Chris Herman, owner
Winter Sun Design
(206)-525-3969

The problems that solar energy can help us solve are numerous. Rising electric rates, rising natural gas prices, rising global temperatures, rising tensions in the Middle East, resource depletion, environmental degradation and pollution are all areas where solar energy can make large positive impacts.

Some may argue these assertions but the biggest myth of all is that solar is not worth doing in the cloudy northwest. Smaller myths follow.

Myth #1. Everyone knows you need sunshine for solar energy systems to work. "The wise man is the one that realizes how little he actually knows" (from the Tao). A passive solar home in Seattle can get 60% of its space heating from the sun. This is according to the National Renewable Energy Lab (www.nrel.gov). That's only 15% less than Albuquerque, New Mexico, where I studied solar design in the early 80's.

Myth #2. Solar is expensive. Some is and some isn't. A high performance passive solar home typically costs 2-5% more to build than a conventional house. It utilizes standard construction practices and materials, has no moving parts and requires no maintenance. Passive solar homes are light and airy with generous windows and more even temperatures, when properly designed. They are less drafty and dusty than homes that rely totally on forced air heating systems.

Myth #3. Solar houses are ugly and require a lot of time and effort to move shades and night insulation. The early homes of the 70's tended to be very contemporary with huge expanses of south facing glass. Solar home design has evolved. We have better glass and insulating materials now and a solar home can be carefree in any style we choose.

What about solar electric systems or PV (photovoltaics), aren't they expensive? PV is the least expensive way to generate power on the customer's side of the meter in urban areas. It is the most environmentally benign way to produce electricity. It seems expensive compared to utility power, but we are not paying the true costs of conventional power in this country. What is the cost of the September 11th attack, or the subsequent war we are fighting now? Solar electricity is quickly deployable, domestically producible and proven reliable over the past 30 years. PV powers almost all satellites, navigation buoys, and remote communications repeater stations.

In joint ventures with Sun Wind Concepts and Western Sun Utility co-op, some of Winter Sun Design's completed projects for 2001 are: a 1.2 kilowatt (kW) grid-tied system we got permitted and helped install for Seattle City Light on the roof of their North Service Center, a 400 watt stand alone system with batteries for a yurt on the Hood Canal, a 4.8 kW mini-grid system we facilitated for a compound in Gambia, and a 2.4 kW residential system for a new passive solar home on Whidbey Island.

This last project took advantage of the sales tax exemption for solar electric and wind installations, and the net-metering legislation that requires power companies to credit solar and wind power producers for all the electricity they generate, at the retail rate, up to their usage (or 25 kW) on an annual basis. With Sun Wind's concepts' Tom Rentz's guidance, we also installed the panels for free to the client because they allowed us to hold a workshop where 24 interested people paid \$55 each to learn about PV and help us do the installation. The client did have to pay the contractor for setting the mounting poles and the electrician for doing the 48 VDC and the AC wiring. The system will supply all the power for the 2-person household and it cost under \$20,000.

Last summer (2002) we held another workshop where 26 paying participants helped install a 1.8 kW tracking, grid-tied PV system and a 3 kW battery-charging wind turbine. Stay tuned for this summer's hands-on workshop.

To support solar energy: Buy a solar system. You can start small and easily add to it later. Write a letter to your legislators. Letters carry more weight than e-mails or phone calls. Attend the National Tour of Solar Homes every October. Join the American Solar Energy Society @ www.ases.org. 303-443-3130, or Solar Washington @ www.solarwashington.org. 206-525-3969 to keep up with national and local issues and events. There is a lot going on all over the world, our nation and our state. Part of the solution comes up every morning. You can help make it so.



Solar Cooking Technology by Martin Nix.

THE NEAT THING about solar cooking is that anyone can build one, design one, and even use one. All you have to do is just see the sun, and grow the food. Solar Cooking is not new. But what is new is that it is more 'convenient' and 'ergonomic'. Worldwide there are about 60 or so patents in the field of solar cooking. There are all kinds of designs, and people are inventing new ones all the time. My friend Howard Donaghy, a bicycling ex-marine, is just such a person. One time I made a solar cooker out of just cardboard and reflective potato (e) chip bags! He took it home. Presto, there was a power outage, and he was the only person in the apartment who had hot water. He then started to think and improve on the design. He recommended to me an adjustable grill, moving the solar cookware up and down to adjust for the focal area of the sun. He then got really inventive. He calls it "scrapyard" solar. He went to the local thrift-store, got some clear suitcase covers, put "bubble packing wrap" in between, and Presto, just the type of solar cooker a bicyclist would want...just roll it up.

Solar cooking is neat in that it really reaches out to people in the "throwaway" class. Energy, of course, is cheap.... for the rich. A good definition of being rich is having lots of energy to waste. People in the 'no energy class'; well, don't have access to energy. Worldwide, the umbrella organization International Solar Cooking Association has done a 'knockout job' of distributing solar cooking information. They even ship solar cookers to places like Somalia, India, South Africa.... even Afghanistan (a riot in downtown Kabul occurred when they were first introduced). Increasingly, we hear over and over again, reports of people in third and fourth world nations that they would not have had a hot meal if it weren't for this invention.

Solar cooking really is a good place to start to learn about solar technology. I contend the future of solar energy is 1) portable, 2) easy to use and understand systems, 3) assemble/disassemble, 4) light weight and shippable, 5) uses common materials and skills, 6) long lasting and quality.

So far there isn't a 'solar restaurant in Seattle', but my engineered solar cookers are neat. Basically, I focus the sun's rays into dishware (Pyrex or metal) placed inside a high temperature plastic bag, like Reynolds Turkey Bags. My patented designs are of the "grill type", where the sun's rays are focused onto a "grill" literally. On top of the grill is dishware, or my favorite solar cooked turkey!! Ovens are different. They use glass. Grills work only on sunny clear days. Ovens are neat in that they can trap heat from the day, and cook at night. Ovens usually use glass, while grills don't. There is also another reason for the grill, to keep people's heads out of the focal area of the sun. Just like 'don't stick your hand in the fire', the grill physically prevents the curious from sticking their eyes in concentrated sunlight. Plus, grills are a lesson learned from childhood...grills could be hot. A "solar cooking boy-scout merit badge" is really a good place to start understanding the power of the sun. I find that my portable 2 footer can cook about 1 pound of food per hour. For example, three pounds of "solar burgers" would take 3 hours.

An important rule of the thumb for solar cooking is to start before noon. The prime cooking times are between 10am and 2pm every sunny day. When the sun is highest in the sky, there is more direct sun. At sundown there is much less direct sun (making the sun look big) and the atmosphere absorbs a lot of the sun's energy. Solar cooking also works better at higher altitude than that at sea level, in part due to a thinner atmosphere. I build my grills of various sizes. The two footer works like a crock-pot, while my 12 footer, fries! I have found that aluminum is the metal of choice. It is long lasting, highly reflective of sunlight, lightweight, and easier to machine (than say wood or steel). Each one is designed to be Assembled, disassembled, packaged and shipped. (16 footers pull out nearly 700 to 900 degrees!).

If you are serious about integrating solar energy as part of your life (and utility bill!), start out with solar cooking.

Martin Nix
PO Box 95173
Seattle, WA 98145-2173
solarshack@earthlink.net

President's Letter

What a great ride this is! The past 2 quarters have flown by with so much going on. My request for volunteers has garnered results, and the energy in the group is inspiring.

Last year's Solar Home Tour gained lots of interest and our plans for next year will expand on our success. We will have many more sites all over the state. Do you know someone who'd like to be on it? We may have a publication this year and more outreach, if our Million Solar Roofs grant comes through.

Booths at the Seattle Tiith Fair and Remodeling Expo were well attended and well staffed. Most of the 3 days at the Expo our 7 members were very busy giving solar advice and educating the public. The booth looked great and only cost our group the money for copies. A big thanks goes out to L & L Exhibition Management for their generous donation of the booth space. And to all our volunteers that made it possible, thank you.

Our last meeting previewed the slideshow from Solar Energy Assoc. of Oregon and shows potential. Due to my injury after a kayaking trip we unfortunately won't get to participate in the WSU Alternative Energy and Green Building Fair in Port Hadlock, Feb. 27-28, where I'd hoped to fine tune the show.

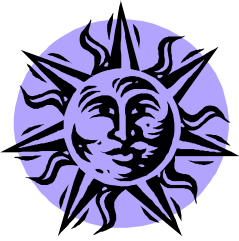
There has been substantial exploration regarding an educational video, and our website has found a new home. Please visit www.solarwashington.org and see our new look. Lots of time and expertise has paid off with wonderful results.

We've even ventured into grant writing which it seems is an essential part in keeping a non-profit growing and effective. Anyone have experience, in this area, to share for our great projects?

Preliminary talks with Snohomish PUD, Seattle City Light, Seattle School District and the Seattle City Council have yielded lots of interest for future joint ventures and partnerships. It seems our groups' expertise is becoming in demand.

I'm very excited about our role in helping to plan the 2004 National Solar Conference in Portland. Thousands of enthusiasts from all over the world will come to the Northwest to immerse themselves in solar for a week. We will help Solar Energy Assoc. of Oregon, and probably have some events in conjunction, such as tours and maybe workshops. Let me know if you're interested in helping.

We're going many directions and it's time we focused a little on clarifying goals, identifying best methods and setting priorities. Join us at our March meeting where the sticky wall exercise will help build consensus. I'd appreciate your input, and thanks for the ride.



"Nothing like the light of public exposure to bring about change."



"The fact is there are over 7000 patents on solar technology"

Calendar of Events

Have anything for the calendar? Call 360-834-0674 zagunis@pacifier.com or <http://www.solarwa.org/>

FEBRUARY 2003
Feb17-May 24th – G/Rated
ReThink: Innovation in Ecological Design & Construction. Portland Area Office of Sustainable Comm. Will put on Green Building Sessions: February is Water; March is Energy; April is Building Materials. AIA credits available. There is a Fee.
www.sustainableportland.org

February 24, 2003 - Lunch with Amory Lovins

MARCH
March 6th – Solar Washington Board Meeting. Topics to include; the educational video; Website; Fundraising; workshops to put on. Lots to discuss with so be there Olympic Pizza and Pasta. 6413 Roosevelt Way, NE Seattle 206-525-4011. starts at 6:30pm.

March 8-9 – SEI's Utility Interactive PV Systems. Sacramento, CA Costs involved
<http://www.solarenergy.org/>

March 27 – Solar Washington Member's Meeting at 6:30 in north Seattle. Come and participate in the "sticky wall" exercise. See web site for details.

APRIL
April 5th SEI's Introduction to Renewable Energy. Guemes Is. WA. (Fee) Contact SW Member Ian Woofenden at ian.woofenden@homepower.com

April 7-12. SEI's PV Design & Installation Workshop. Guemes Is. WA. (Fee) Contact SW Member Ian Woofenden at ian.woofenden@homepower.com

April 14-19. SEI's Homebuild Wind Generation. Workshop. Guemes Is. WA. (Fee) Contact SW Member Ian Woofenden at ian.woofenden@homepower.com

April 21-24. SEI's MicroHydro Workshop. Guemes Is. WA. (Fee) Contact SW Member Ian Woofenden at ian.woofenden@homepower.com

April 22nd EARTH DAY! Recycle Exchange at Odd Fellows Hall . Orcas Island, WA East Sound. All Day.
<mailto:solar@rockisland.com>

Mr. Sun's Workshop ALL Day
John@mrsun.com

April 30-May 2nd EnvironDesign Conference Sustainability by Design. Washington DC.
www.environdesign.com

MAY
May 6-8th BPA's Net Energy Homes Conference

May 17th Building Load Develop. Workshop. Orcas Is, WA solar@rockisland.com

May 18th Windpower Conference. Austin, TX.
www.awea.org/conference

JUNE
June 20-22 Midwest Renewable Energy And Sustainable Living Fair
Central Wisconsin
<http://www.the-mrea.org/>

June 21-26th ASES's America's Secure Energy Conference. Check out the workshops and sessions for ASES's 32nd National Conference. Next year it is in Portland, OR!
www.ases.org

OCTOBER
October 4th Solar Home Tour Member Darren Emmons will organize SW 3rd Annual Solar Home Tour

October NW Solar Summit #6 Sun Mountain Lodge – Winthrop WA. Utility members encourage. Contact **Ellen Lamiman**, ellenlam@methow.com

October 13-18th. SEI's PV Design & Installation Workshop. Guemes Is. WA. (Fee) Contact SW Member Ian Woofenden at ian.woofenden@homepower.com

October 20-25th. SEI's Wind Power Workshop. Guemes Is. WA. (Fee) Contact SW Member Ian Woofenden at ian.woofenden@homepower.com
July 11-14th 2004
ASES Conference in **Portland OR.** Can you volunteer?

August 8-12 2005 ISES/ASES Orlando, FL. www.ises.org



Monthly Meeting Minutes

Here are the summary of the minutes for the past months. This is just an overview of our activities.

Solar Washington Public Meeting Minutes 9/12/02

- ☀️ President's report: Chris notes we are looking for volunteers for all committees.
- ☀️ Introduction of all board members with brief description of their board duties and their professional background.
- ☀️ Round robin introduction of all meeting attendee's.
- ☀️ Award Ceremony: Mike Nelson awarded plaque for his role as founding President of organization.
- Committee reports:**
- ☀️ Policy: Mike notes a statewide initiative to fund projects is in the works. The timing has groundwork being laid now and then a ballot initiative with the next Presidential election.
- ☀️ Trades: Brian notes he is trying to fund two IBEW JATC center arrays for training. He also noted good progress on the revival of the Seattle City Hall PV array project.
- ☀️ Education: Bill is looking for broad involvement from volunteers. He is currently trying to find the "center" of interest for the organization so he can tailor his programs to be most effective.
- ☀️ Website: George notes that requests for new website features have already been satisfied by existing content. He has added our new information and message voicemail number and this is operational. Solar home tour photos for 2002 will be posted.
- ☀️ Newsletter/membership: John asks for informational articles from members. He also requests members to be sure they are current on their dues.
- ☀️ Publicity: Pam notes that there are \$500.00 grants available to

chapters to help with the costs of the solar home tour. She will be processing our grant request.

☀️ Tilthe fair: Jeff notes his plans are complete for staffing and assembling the booth.

☀️ Solar homes tour: Darren notes he currently has 11 sites on his roster. Directions and information can be linked from the ASES site or is available as a handout.

General Notes and Comments:

☀️ Jason reports about he and Bill's attendance at a recent meeting of the Northwest Energy Coalition. He noted they are supporting legislation that proposes that 2% of utility company revenues statewide be utilized for power efficiency or renewable energy projects. Amongst Solar Washington members there was voiced strong dispute about whether their agenda was aligned with ours. Bill and Jason seemed to feel that we should continue to examine the Coalition's position and try to influence it with our members' views.

Meeting minutes by Secretary Brian Ugi

Minutes - Solar Washington Meeting on November 21, 2002

7pm at Romio's Pizza & Pasta, Seattle, WA

PRESIDENTS REPORT...

Chris Herman welcomed 26 Friends of Solar to the meeting and spoke about his goal as president to get a lot of people involved. He will support SW members who can be the main lead on a project. Chris looks forward on concentrating on the Solar Home Tours and building

up membership.

NEWS: The tour of Solar Homes 2002; 14 buildings were on the successful tour. Are there some things we can do to make the tour more accommodating? Darren would like to increase the number of buildings on the tour. If you know of any contact darren@solarhacker.com. Articles from members are always needed for the next newsletter. Contact John Zagunis@pacifier.com

SW is moving forward with: Production of a public access Video; Newsletter for solar Washington; a slide show for next meeting.

SW Projects include: a 3 KW PV System for the PCC in Fremont; a larger PV system at Ballard High School/City of Seattle and School Board!

VP Brian Ugi spoke with George Ingham who is a Vancouver BC NECA Electrical Contractor and Director for the National PV Construction Partnership. George is promoting BIPV construction and has made arrangements with the Amalgamated Bank of New York to supply loans to help promote trade union's installations. The intent is to get more equipment out there.

Presentation of our "New Website was discussed. We want it to concentrate on education awareness. Any suggestions contact: kiter6@nwlink.com

Chris Herman nominated Bob Giovannoni as the secretary

Mike Nelson proposed we apply for a MSR grant of \$5k or \$10k for a Solar Home Tour Publication.

"SW will apply for a MSR Grant for 2003 Solar Home Tour publication.



"Solar Washington's domain name is solarwa.org"



EDUCATION

Here are summaries of the **Educating Tools that are available for Energy Educators. If you know of more please contact me at Zagunis@pacifier.com**

The National Energy Education Department (NEED) Project is a nonprofit organization that has focused on teaching students and teachers about energy for over 20 years. NEED works with the education community and the energy industry to design and distribute hands-on, science-based educational materials on energy for grades K-12, conduct student and teacher training programs, provide evaluation tools, and recognize outstanding student and teacher achievement. NEED materials are designed to meet the diverse needs and learning styles of student, and are teacher-tested to ensure success in the classroom. NEED materials are correlated to the National Science Education Content Standards, as well as to many state standards of learning.

NEED will be having 3 Conferences around the Nation. The Closest one will be in Denver, CO July 26-30 Embassy Suites Downtown. For more Info with the Solar Conference. Registration Deadline April 15th. Hurry!
Contact www.need.org or email at info@need.org.
The NEED Project also sends out a Newsletter entitled :”Energy Exchange”

NATIONAL STUDENT CHALLENGE!!

National Energy Foundation is organizing a student challenge to recognize and reward “wise energy and environmental actions and ideas”. The Winner will get an “Insider’s Tour” of Washington, D.C.!

Grade clusters to include K-5, 6-9, 10-12. Sponsored and funded through an educational grant by Johnson Controls, with additional support from the US Energy Association and NEF.

This is a competition of skill. Students may enter multiple projects varying from music, web-projects, essays and even art forms.
<http://www.ignitingcreativeenergy.org/>

All entries must be postmarked by March 15th

TOOLKITS from NTIS

The National Technical Information Service (NTIS) recently announced it has developed a toolkit for teachers designed to provide information on climate change and its potential impacts on wildlife, national parks and wildlife changes. NTIS said the EPA in response to requests developed the toolkit for rangers and tour guides in national parks throughout the country. The kit features a short video, titled “Climate Change, Wildlife and Wild lands.” a CD-Rom with four case studies highlighting the potential impacts of global warming; a greenhouse gas (GHG) emissions calculator; and

flashcards highlighting the potential effects of global warming. NTIS said the toolkit could be used as a supplement to presentations on global warming or the potential impacts of climate change. The kit is available from NTIS for \$25. 1-800-553-6847

<http://www.ntis.gov>

NREL Research Opportunity for Teachers.

The National Renewable Energy Laboratory’s (NREL) Office of Education offers an opportunity to K-12 science, mathematics, and technology teachers to revitalize their research interests and skill. Participants conduct supervised, state-of-the-art renewable energy research and participate in professional development as summer research associates. The Laboratory Science Teacher Professional Development (LSTPD) Program teachers and appointed on a competitive basis. Applications must be postmarked by February 28th.

www.nrel.gov/education/lstpd.html

SOLAR ENERGY

INTERNATIONAL SEI, a non-profit organization, has educational material. They also put on hands-on Workshops and will be in Washington in March and April. Workshops are: Homebuilt Wind Generator; MicroHydro; and PV Design & Installation; Guemes Is. There is a fee. www.solarenergy.org or email sei@solarenergy.org



Solar Business

Please let me know what would help in your Solar Business at Zagunis@pacifier.com
My hope is not to inundate you with Alternative Energy News only Solar News.

Energy NewsData Corp funded by Northwest Energy Efficiency Alliance puts out a newsletter entitled Con.WEB. It is a free Web-based monthly newsletter covering energy conservation and renewable energy in Washington, Oregon, Idaho and Montana. <http://www.newsdata.com/enernet/conweb>
Another AE newsletter is found at www.altpowermag.com This is more national, but it does have good updates.

Federal Energy Management Program **FEMP** Workshops are available. www.pnl.gov/femp One of their Workshops will be held May 13-15 in Irvine, CA entitled "Distributed Generation and Combined Heat & Power Workshop" more info at www.energetic.com/femp/la.html

Washington State 2003 Trade Week

The Washington State Dept. of Community, Trade and Economic Development are looking for businesses that want to go International. In March they are all over the State to promote Trading in other Countries. Might be your opportunity!
www.exportwashington.com

ENERGY SOLUTIONS

Edlen Lamiman, ellenlam@methow.com, sells LED lights. LED lights work great on Solar Systems because you can get them using DC power.

HOMEPOWER

Michael Welch is looking for more articles written by experience RE professionals, detailing solid systems design and clean installation. If time is a factor, consider co-writing it with your customer. Homepower will help edit. If interested, please email submissions@homepower.com
Subjects are BI-PV Systems, newer inverter systems and any Solar Thermal articles.

ENERGY OUTFITTERS

Bob Mayand is growing their distribution business. They have a diverse Product line and focusing on distributing. Energy Outfitters has been established for over 10 years. Contact bob@energyoutfitters.com

BRIGHT WAY TO HEAT WATER

BPA is working with Utilities to bring out EWEB's Hot Water Program. Clark County PUD (Vancouver) recently had their workshop to "certify" Hot Water installers, and will roll out their program at the Home and Garden Show in April. Call your Utility to see when they are having their workshop with BPA. Better yet contact BPA at eyaldelman@bpa.gov. Any technical questions to Adam Hadley, arhadley@bpa.gov, who is standardizing the specs. Bright Way is using all new equipment and guaranteeing that the system will last 20+ years.

3rd Annual Harvesting Clean Energy Conference happen February 10-11. Info for next year's is at <http://www.harvestcleanenergy.org/>

My Emails:

Lightguide is the largest solar concentrator on earth! See how this powerful solar engine can help make our world a better place. Thank you, Mike Murtha, Member ASES <http://members.aol.com/rmmurtha/sol.pdf>

We would like to present to you a very cost effective BIFACIAL PV system in combination with a tracking support structure. **The bifacial tracking system can increase the annual PV energy gain by 45% (up to 75% in summer) and even double capacity of PV pumping systems (see attachment). The price is equal to standard fixed systems.** Example: The retail price of the complete 1.2 kW bifacial tracking system TRAXLE (equivalent of the standard fixed 1.7kW system) is 6.890 EUR/USD. V.Poulek <http://www.pvcomponents.com/>

If you want your Business Name in this page please send me something that you specialize in and any upcoming events. Email; Zagunis@pacifier.com

Solar Washington's mission is to further the development for renewable energy and related arts, sciences, and technologies with concern for the economic, environmental, and social fabric of the State. We welcome any persons or organizations that raise the level of public awareness for this purpose.

YES! SIGN ME UP

Name _____

Address _____ City _____ State _____ Zip Code _____

Phone _____ email address _____

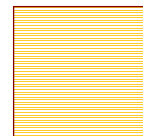
Enclosed is my **Corporate** Membership in Solar Washington. Membership includes email update on solar activities. This membership provides discounts on Workshop and newsletter mention. **Remit \$150.00**

Enclosed is my **Professional** Membership in Solar Washington. Membership includes email update on solar activities. This membership also updates my **ASES** membership. **Remit \$100.00**

Enclosed is my **Regular** Yearly Membership in Solar Washington. Membership includes email update on solar activities (Post High School Students Remit \$15.00 Plus ID, Youth (K-12) Remit \$5 Plus ID) **Remit \$40.00**

Please Send Checks To: Solar Washington, 889 Sands View Rd. Camano Island, WA 98292-7557

Solar
Washington
Association



2223 NW 43rd Ave
Camas, WA 98607

Phone:
(360) 834-0674

E-Mail:
solarwashington@
solarwa.org

