

From: Gil Masters (gmasters@stanford.edu)
To: energyfolks@lists.stanford.edu
Date: Tuesday, November 13, 2007 2:30:22 PM
Subject: cleantech\$, wind record, carbon, CSP,LED, etc

..back from a great trip to Palau (pic)... so here's some accumulated energy stuff..

1. Toles oilboarding 'toon
2. Quote of the day (well some days ago) on Cap and Trade
3. InterAcademy Council Sustainability Report: Figure on mpg
4. Stanford Energy Seminar (Coal Markets) and (Ice Breaker) Social: Weds Nov 14
5. MAP brown-bag lunches: Next one Weds, Dec 5
6. Clean Tech investments \$844 million in 3rd Quarter
7. Vestas 1.5 billion Euro 3rd quarter revenue
8. 4000 MW U.S. Wind Installations Projected for 2007
9. New Report: Using Tax Credits to Build a Durable Market for U.S. Wind
10. New Carbon Cycle Report: Rather gloomy
11. BizSchool/Woods Ecological Footprint Leadership Management Program, Jan 11-13
12. First Solar (CdTe PV) Dazzles Wall Street
13. PG&E Embrases Solar Thermal Power Technology: 553 MW, \$550M
14. Meanwhile: Clean coal' stalled, for now: Cost, feasibility hamper projects
15. How Silicon Valley could become the Detroit of electric cars
16. FPL Group Chairman Calls Climate Bill ``Well-Intentioned but Fundamentally Flawed''
17. 60 Lumen/Watt LED downlights now on the market (% equivalent to CFL efficacy)
18. Livable Buildings Award Winners 2007 include Global Ecology Center and DeAnza's Kirsch
19. 2008-2009 AMS-UCAR Congressional Science Fellowship
20. Switzer Environmental Fellowships
21. CleanTech Speech Writer wanted for local VC

JOBS JOBS JOBS JOBS

22. ICF International: Climate Change consultant, SF
23. NRDC: Energy Program SF & DC
24. Program Associate, Southwest Energy Efficiency Project, Boulder
25. Regional Greenhouse Gas Initiative: Executive Director, NYC
26. Collaborative for High Performance Schools
27. Commercial Green Buildings Coordinator, SF Dept of Enviro
28. Sr. Analyst - Strategic Operations, OptiSolar, SF
29. Energy/Environment Legislative Assistant, Reps. Udall, Eshoo
30. 3Degrees: REC and VER contract manager, IT Associate, SF
31. Intl Council for Science, Paris
32. ACEEE: Industrial Energy Efficiency, DC
33. 3TIER : Wind Energy Forecasting Analyst, Seattle
34. GreenVolts Engineering Job Openings
35. CH2MHill Informational Job Open House at Stanford, Nov 15 2-4 pm
36. OptiSolar: Sr. Electrical Engineer
37. NRDC Codes and Standards, SF and DC
38. California Organizer: Union of Concerned Scientists, Berkeley
39. Assistant Director, Energy Initiatives, Princeton
40. Building Science /HVAC Engineer, Sustainable Spaces, SF
41. Assistant/Assoc Professor: Environmental Engr (sustainability), UC Merced
42. Director of Utility-Scale Solar Policy, Vote Solar
43. Asia-Pacific Partnership for Clean Development: India

1. : NYTimes' Tom Toles toon Nov 8



2. Quote of the day (well some days ago) on Cap and Trade

From the SF Chronicle article on new (somewhat toothless) Cap and Trade legislation:

"We believe the bill's proposed greenhouse gas emissions reductions are 'too much, too soon,' " said Jack Gerard, president and CEO of the American Chemistry Council, a trade group of plastic and chemical manufacturers. He warned the bill would "turn energy markets upside down, causing massive reductions in coal usage and enormous increases in natural gas and renewable fuels usage."

<http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2007/10/19/MNKCSSD3I.DTL&type=politics>

...my goodness!

3. InterAcademy Council Sustainability Report: Figure on mpg

On Oct. 22, 2007, the InterAcademy Council has released a new report, commissioned by the governments of Brazil and China, identifying and detailing the scientific consensus framework for directing global energy development. Lighting the way: Toward a sustainable energy future lays out the science, technology and policy roadmap for developing energy resources to drive economic growth in both developed and developing countries while also securing climate protection and global development goals.

See <http://www.interacademycouncil.net/?id=9481>

Here's an example figure that I find compelling: Equivalent CAFE mpg standards around the globe

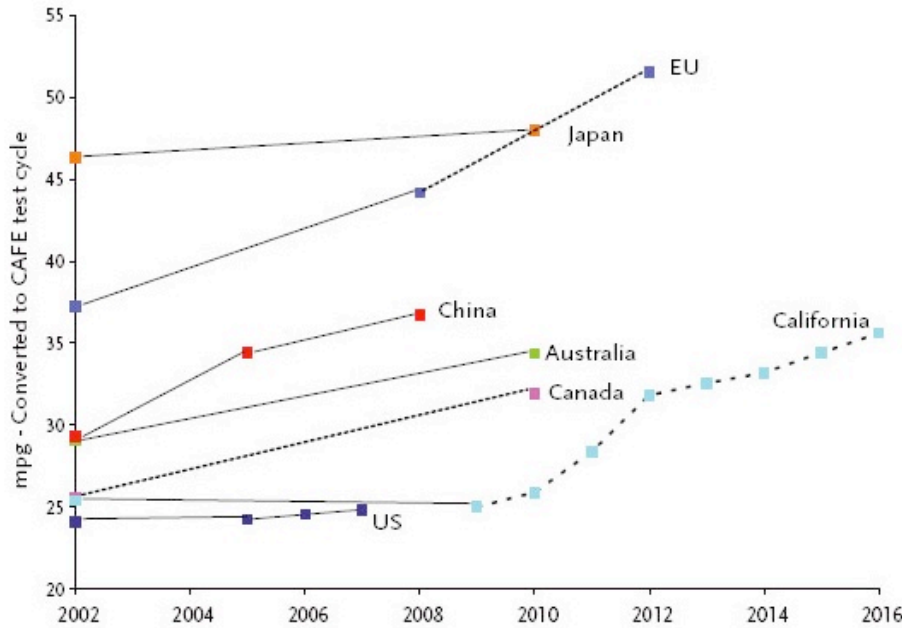


Figure 2.6 Comparison of auto fuel efficiency by auto fuel economy standards among countries, normalized to U.S. test procedure

Note: Y-axis shows miles per gallon (mpg) according to Corporate Average Fuel Economy (CAFE) standards (1 mpg equals 0.425 kilometers per liter). Dotted lines denote proposed standards. Japan has recently announced that it wants to implement even tougher standards, which would put it on par with the EU beyond 2014 (An and others, 2007).

Source: An and Saver, 2009.

4. Stanford Energy Seminar (Coal Markets) and (Ice Breaker) Social: Weds Nov 14

Wednesday, Nov. 14, 4:15 pm, Woods Institute Energy Seminar: "The Political Economy of the Global Coal Market"

<http://woods.stanford.edu/education/energyseminar.html>

Jeremy Carl, IPER graduate student, Program on Energy and Sustainable Development, Stanford

Location: Building 420, Rm. 40. Open to the Stanford community.

For more information, visit <http://woods.stanford.edu/education/energyseminar.html>

Wednesday, Nov. 14, 5:30 pm-7:30 pm, Energy Social

<http://pangea.stanford.edu/calendar/events/index.php?com=detail&eID=1380&year=2007&month=11>

Members of the Stanford community with an interest in energy issues are invited for refreshments and conversation.

Location: Faculty Club.

RSVP: Judith@maproyalty.com.

By the way... you can put yourself onto the Woods Institute email list to receive Stanford energy announcements of the above sort directly from them:

https://mailman.stanford.edu/mailman/listinfo/woods_energy_faculty_seminars.

5. MAP brown-bag lunches: Next one Weds, Dec 5

Past MAP Sustainable Energy Fellows will discuss their experiences as MAP Fellows with a variety of NGOs. Join us for insights, discussion, pizza and drinks as you consider applying for 2008 Fellowships. The Fellows will discuss their life-changing experiences with some exceptional NGOs.

All lunches will be held in the Hartley Conference Room, 12:00-1:30PM.

Wednesday, 12/5: Barry Fischer (NRDC), Arianna Lambie (Union of Concerned Scientists, Luke Morton (United States Green Building Council),

Monday, 1/14: Diana Ginnebaugh (NRDC), Jacek Pruski (NRDC), Amul Sathe (NRDC), Andrew Chang (NRDC)

Sponsored by School of Earth Sciences - Earth Systems Program and MAP

6. Clean Tech investments \$844 million in 3rd Quarter

SJ Mercury, Nov 11

* Nationally, the clean tech industry, which crosses traditional MoneyTree sectors and comprises alternative energy, pollution and recycling, power supplies and conservation, saw record investment levels with \$844 million going into 62 deals in the third quarter. This represented an 80 percent increase in the dollar level and 35 percent increase in the number of deals in the sector over the second quarter of the year.

7. Vestas 1.5 billion Euro 3rd quarter revenue

Nov 07, 2007 -- Datamonitor

Vestas, the Danish wind turbine maker, announced revenue of E1.5 billion for the third quarter of 2007, compared to E842 million for the same quarter of 2006.

8. 4000 MW U.S. Wind Installations Projected for 2007

November 7, 2007

AWEA reports that the U.S. wind energy industry is currently on track to complete a total 4,000 MW in 2007, shattering its 2006 record of 2,454 MW, and generating enough new electricity to power the equivalent of over one million homes.

In its third quarter market report, AWEA also reports that the industry has already added over 2,300 MW of generating capacity to the nation's electrical grid so far this year with a total of more than 5,000 MW in various stages of construction, establishing wind as one of the largest sources of new power in the country today.

The U.S. wind energy industry completed 1,251 MW of wind power generation since last reported, bringing the total installed to date this year to 2,310 MW and the total cumulative wind power generating capacity in the country to 13,885 MW, according to AWEA.

State highlights include:

- Texas again added the largest amount of new wind power generation (600 MW);
- Colorado installed 264 MW and now ranks as the state with the 6th-largest amount of wind power generation;
- Washington, with 140 MW of new wind capacity, pulls ahead of Minnesota into 4th place;
- Missouri saw the completion of its first utility-scale wind farm, a 56.7-MW project that generates power for electric cooperatives in the region and that makes Missouri the state with the 21st largest amount of wind power now installed;
- Illinois, Pennsylvania, and Iowa also saw the completion of utility-scale projects.

For a full list of projects completed this quarter, listing of states by capacity installed, and additional market information see <http://www.awea.org/projects/>

9. New Report: Using Tax Credits to Build a Durable Market for U.S. Wind

We are pleased to announce the release of a new article by Berkeley Lab, titled "Using the Federal Production Tax Credit to Build a Durable Market for Wind Power in the United States." This article was recently published in "The Electricity Journal," and was funded in part by the Clean Energy States Alliance.

Among the most significant drivers of the recent growth in renewable generation in the U.S. is the federal production tax credit (PTC). Despite the significance of the PTC, and the fact that Congress is currently considering a longer-term extension of the incentive, relatively little effort has been made to evaluate the impacts and effectiveness of the PTC, or to assess the benefits of a longer-term extension of the policy.

The purpose of this article is to make some modest strides in this direction by reviewing developments with the PTC over time, assessing its impact on the wind power market, highlighting the potentially positive implications of a longer-term extension of the PTC, and discussing some possible changes to the design of the PTC that might help overcome some of its limitations as presently structured.

Though the article is not intended to advocate any particular policy outcome, our analysis suggests that a longer-term extension of the federal PTC may provide a number of benefits, including accelerated wind deployment, reductions in installed wind project costs, and increased domestic wind turbine and component manufacturing. At the same time, we also identify several PTC design considerations, beyond the duration of any extension, that may deserve consideration by Congress.

The article itself can be purchased from the publishers of "The Electricity Journal" at:
<http://www.sciencedirect.com/science/journal/10406190>

A pre-print version of the article can be found at: <http://eetd.lbl.gov/ea/emp/reports/63583.pdf>

We hope that this article will be of value. If you have any questions, feel free to contact Ryan Wisler at Lawrence Berkeley National Laboratory (510-486-5474, RHWisler@lbl.gov).

10. New Carbon Cycle Report: Rather gloomy

Date: November 9, 2007 4:36:46 AM EST

The Global Carbon Project (including Prof. Chris Field) has just published a new analysis of the state of the carbon cycle and its immediate drivers of perturbation (economic growth, carbon intensity of the global economy, and natural CO₂ sinks on land and oceans).

You can download the paper, Recent Carbon Trends and the Global Carbon Budget (Updated to 2006), and a ppt file with i) additional carbon trends, and ii) the global carbon budget to 2006 from:

<http://www.globalcarbonproject.org/activities/AcceleratingAtmosphericCO2.htm>

Some of their Conclusions: Since 2000,

1. The growth of carbon emissions from fossil fuels has tripled compared to the 1990s and is exceeding the predictions of the highest IPCC emission scenarios.
2. Atmospheric CO₂ has grown at 1.9 ppm per year (compared to about 1.5 ppm/yr during previous 30 years)
3. The carbon intensity of the world's economy (CO₂/\$GDP) has stopped decreasing (after 100 years of doing so).
4. The efficiency of natural sinks has decreased by 10% over the last 50 years (that is, the fraction of CO₂ emitted that remains in the atmosphere rather than being absorbed by sinks has grown from about 40% to 45%..and will continue to

do so in the future), implying that the longer we wait to reduce emissions, the larger the cuts needed to stabilize atmospheric CO2.

5. All of these changes characterize a carbon cycle that is generating stronger climate forcing and sooner than expected.

11. BizSchool/Woods Ecological Footprint Leadership Management Program, Jan 11-13

[Reduce Your Ecological Footprint: Choose Environmentally Sustainable Business Practices](#)

The Graduate School of Business and the Woods Institute for the environment are delighted to announce a leadership management program for Stanford and GSB alumni, January 11-13, 2008. Hear from many of Stanford's leading environmental faculty, including Professors Schneider, Daily, Masters, Plambeck, Victor, and Thompson about a new business model to make conservation profitable, green buildings, Wal-Mart's sustainability strategy, development of a sustainable supply chain and much more. Guests of alumni welcome. [More](#)

For more information, please contact Erica Richter, richter_eric@gsb.stanford.edu.

12. First Solar (CdTe PV) Dazzles Wall Street

http://www.greenbiz.com/news/news_third.cfm?NewsID=36235

Nov. 9, 2007 -- First Solar shares sold for \$20 during its initial public offering a year ago.

The same shares soared past the \$200 mark Thursday following this week's earnings report showing quarterly sales increased nearly 300 percent over the same period last year.

First Solar shares finished at \$224.43 Thursday, a 34 percent increase over the day before. Evergreen Solar rose 17 percent to close Thursday at \$15.99 while Sunpower rose sharply before falling 2 percent to \$141.93.

First Solar drew a standing-only crowd Thursday in San Francisco during the Pacific Growth Equities clean tech conference, according to Dow Jones. The news wire service reported that First Solar CFO Jens Meyerhoff described the company's plan to mass-produce solar energy cells that are competitive with residential electricity rates without subsidies within the next five years.

Company sales are focused on France, Germany and Spain; it has yet to penetrate the U.S. market. The estate of John Walton, from the founding family of Wal-Mart, owns a controlling stake in the company.

13. PG&E Embrases Solar Thermal Power Technology: 553 MW, \$550M

<http://www.sfgate.com/cgi-bin/article.cgi?file=/c/a/2007/11/05/BUBTT5KM2.DTL>

As California utilities scramble to buy more renewable energy, Pacific Gas and Electric Co. and a Palo Alto startup will announce plans today to build a solar power plant big enough to light more than 132,000 homes.

Ausra Inc. will design and build the plant, which will be located on the Carrizo Plain of eastern San Luis Obispo County and could begin operating as soon as 2010. San Francisco's PG&E has agreed to buy the plant's power for 20 years.

Like the rest of California's big utilities, PG&E faces a state-imposed deadline to derive 20 percent of its power from certain renewable sources by the end of 2010. And like the other utilities, PG&E already has warned that it might not meet that target.

So the company is turning to solar thermal power plants, which can generate large amounts of energy on a reliable basis.

In July, the company agreed to buy power from a solar plant planned for the Southern California desert, which will generate 553 megawatts, enough for more than 414,000 homes. PG&E plans to buy 1,000 megawatts of solar thermal energy within the next five years.

Ausra's plant will cover a square mile and cost between \$500 million and \$550 million. The privately held company is funded by Khosla Ventures and Kleiner, Perkins, Caufield & Byers - two of Silicon Valley's most aggressive venture capital firms in the green tech industry.

14. Meanwhile: Clean coal' stalled, for now: Cost, feasibility hamper projects

<http://www.energycentral.com/centers/news/daily/article.cfm?aid=9170534>

Nov 3 - Until recently, "clean coal" power plants like the 600-megawatt Mesaba Energy Project had seemed like the energy industry's perfect retort to Al Gore: a plant on the Iron Range that could produce reliable power using abundant coal and yet not muck up the environment.

But the controversial project failed to win regulatory approval from the Minnesota Public Utilities Commission this week and similar projects using the same technology elsewhere are collapsing over concerns about cost and feasibility.

So has the time for "clean coal" passed before it could even begin?

Julie Jorgensen doesn't think so. The co-CEO and founder of Wayzata-based Excelsior Energy believes her company's \$2.1 billion project will be back and so will its technology, called integrated gas-combined cycle, or IGCC for short.

Xcel Energy, which opposed the Excelsior project because it didn't want to be forced to buy Mesaba's power, this week shelved an IGCC proposal of its own for the state of Colorado.

Xcel said that after two years of study, it decided its own \$1 billion IGCC proposal was too costly to build without a partner.

And last month, Teco Energy Inc. in Tampa, Fla., said it wasn't moving ahead with plans for a \$2 billion IGCC unit because of uncertainty over possible emissions regulations and the potential for rising construction costs.

Counting Mesaba, there are nine U.S. IGCC projects that have been canceled or put on hold this year. In September, a Dutch utility tabled a 1,200 megawatt IGCC project in the Netherlands.

There are three main reasons.

Unexpected costs have been dooming many of these projects, said Carol Overland, a Red Wing attorney who is representing landowners on the Iron Range that would have been affected by the Mesaba Power project.

Overland and other critics also contend the plants are not as environmentally friendly as they first sounded. The plants would not reduce emissions of sulfur dioxide or nitrous oxides significantly lower than that of a brand-new coal plant using "pulverized" technology that pounds coal into a dust before burning, she said.

Excelsior officials dispute that assertion, but a two-judge panel that studied the proposal for the PUC sided with the

critics.

Finally, there's the carbon dioxide. IGCC by itself does nothing to reduce CO2 on its own.

Jorgensen and her husband, Tom Micheletti, Excelsior's other co-CEO and founder, maintained that they would build-in the ability for their plant to capture and sequester the CO2. They would then ship it via a pipeline into Canada, where it could be sold to oil companies that already are injecting captured CO2 into oil wells to push out the oil while the gas remains trapped underground.

But opponents of Mesaba have pointed out Excelsior's proposal did not include formal plans to spirit away the carbon dioxide. That could tack on another \$1 billion to the proposal's price tag, one commissioner suggested.

15. How Silicon Valley could become the Detroit of electric cars

By Matt Nauman Mercury News 11/07/2007

http://www.mercurynews.com/business/ci_7392438

Last week's announcement by Shai Agassi, a former SAP executive based in Palo Alto, that he's raised \$200 million for a company that will try to revolutionize the electric car industry is the latest sign of this region's growing role in one of the hottest sectors of the automotive industry.

That's no surprise considering California's mandate for cleaner cars, the local enthusiasm for plug-in hybrids, the Silicon Valley fascination with new technology and the number of Bay Area venture firms investing in this industry.

Agassi, who spent months studying his venture, makes an interesting observation about the valley and the Motor City. "Detroit is a car manufacturing center. I think what we're looking at is not something that can be done in a normal way. . . . It needs an Internet approach, a Google approach."

And, he said, this region is well-suited to do that. "In the valley, we know how to do technology disruption. We know how to do business models, how to develop proof of concept and get it adopted around the world," he said.

His plan calls for Better Place to partner with car makers whose products will use the company's batteries and charging/swap stations. If consumers commit to a long enough contract for power, Agassi argued, they could even get cars for free - just like with mobile phones and service plans.

16. FPL Group Chairman Calls Climate Bill ``Well-Intentioned but Fundamentally Flawed''

JUNO BEACH, Fla., Nov 02, 2007 -- BUSINESS WIRE

A climate change bill approved by a Senate subcommittee Thursday would reward the country's biggest emitters of carbon dioxide and fails to provide a reliable mechanism to prevent possible massive economic damage, the head of one of the country's largest electric power companies said today.

"I acknowledge and applaud the willingness of key senators to try and address the important issue of global climate change. Unfortunately, the bill they have proposed, if left unchanged, would reward the country's biggest emitters of carbon dioxide with billions of dollars of free allowances that they don't need. Moreover, the bill contains no clear 'safety valve,' to ensure that we don't inadvertently damage the economy," said Lewis Hay, III, Chairman and CEO of FPL Group Inc. (NYSE:FPL), which operates the country's largest wind and solar power generating facilities. His comments came after a subcommittee of the Senate Environment and Public Works Committee voted 4-3 to move the America's Climate Security Act (S. 2191) to the full committee for hearings and a markup.

Hay, noting that his company is a strong proponent of mandatory climate change legislation, said he appreciated the hard work that the measure's sponsors, Senators Joseph Lieberman (I-CT) and John Warner (R-VA), and their staffs had put into the effort.

However, he pointed out that the bill as drafted provides generous quantities of free allowances to companies that are the biggest emitters of carbon dioxide, the major greenhouse gas, and that have done little to improve their generating fleets' emissions profiles. "If allowances are to be given away, they should be given away fairly, treating every kilowatt-hour the same," Hay said. "It makes no sense to give the biggest emitters a disproportionate share of the allowances. That's like giving a bigger rebate to those of us who dump the most trash on our sidewalks," he said. "We have said all along that giving away allowances is problematic, because it leads inevitably to a political food fight. Unfortunately, this draft legislation just illustrates our concern."

Hay also expressed concerns over the bill's provisions for controlling costs. "Industry and consumers alike need assurance that the costs of addressing climate change will be manageable. A well-defined 'safety valve' mechanism is a must. Unfortunately, the bill proposes an elaborate and murky new bureaucracy that will provide anything but clarity and reassurance," he said. "Climate change is a long-term problem and requires a long-term solution. We should not run the risk of wrecking our economy in a misguided effort to try and address it too quickly. Any legislation has to provide a sound mechanism to keep that from happening."

17. 60 Lumen/Watt LED downlights now on the market (% equivalent to CFL efficacy)

<http://www.buildinggreen.com/auth/article.cfm?fileName=161109a.xml>

A new LED (light-emitting diode) downlight module for 6" (150 mm) recessed cans offers the highest efficacy of any downlight on the market-providing 60 lumens of usable light per watt of power consumption. The LR6 from LED Lighting Fixtures, Inc. (LLF) in Morrisville, North Carolina, uses just under 11 watts to produce 650 lumens. A diffuser on the face of the module results in a uniform light that is nearly indistinguishable from incandescent light yet requires one-fifth the energy. The module is available in 2,700 and 3,500 K color temperatures and provides a color rendering index (CRI) of 92. It is available with an Edison-type screw base or a GU-24 pin base, is dimmable to 25% (but only with certain compatible dimmers), and has a rated life of 50,000 hours.

To maintain fixture life, the aluminum housing and heat dissipation fins ensure that LLF's LED fixtures remain below the manufacturer-specified maximum temperature of 176°F (80°C). LLF carried out worst-case testing with the lights installed in an insulated ceiling below an unconditioned attic in Sacramento, California, with an outside temperature of 115°F (46°C).

18. Livable Buildings Award Winners 2007 include Global Ecology Center and DeAnza's Kirsch

Selected for excellence in design, operation and occupant satisfaction by the Center for the Built Environment

A seven-member jury comprised of building industry leaders selected three 2007 Livable Buildings Award winners. The sustainable design elements in these facilities are expertly crafted to convey the clients' distinct environmental message. The buildings reinforce the owners' goals and missions, and do so while promoting the health and productivity of occupants working inside.

Global Ecology Research Center

The Global Ecology Research Center at Stanford University is a low-energy laboratory for the Carnegie Institution of Washington. The building purposefully and gracefully brings attention to important environmental issues identified by the Carnegie Institute and explored by its researchers, who study the interactions between earth's ecosystems, land, atmosphere and oceans. More information>>
Kirsch Center for Environmental Studies

As one member of a community college system 110 campuses strong, De Anza College stands out with its sustainably-designed Kirsch Center. Student involvement from the earliest concept phases has produced a facility that uniquely addresses the environmental issues considered most important by students, and fully provides for the daily needs of building users.

Philip Merrill Environmental Center

Located on the shore of the Chesapeake Bay, the Philip Merrill Environmental Center is home to the Chesapeake Bay Foundation, a non-profit dedicated to studying, protecting, and restoring the bay. The Merrill Center limits the foundation's environmental footprint and offers extensive opportunities for visitors to learn about both the bay and green design. More information>>

Global Ecology

View slideshow

Kirsch Center

View slideshow

Philip Merrill

View slideshow

about us | research | membership | what's new | terms of use

College of Environmental Design | University of California Berkeley

All contents copyright (C) 2006 The Regents of the University of California. All rights reserved.

19. 2008-2009 AMS-UCAR Congressional Science Fellowship

The American Meteorological Society (AMS) and the University Corporation for Atmospheric Research (UCAR) seek candidates with backgrounds in the Earth sciences for the 2007-2008 AMS-UCAR Congressional Science Fellowship. Fellows participate in the legislative process by joining a Congressional office of their choosing in the United States Senate or House of Representatives. Typical duties include developing legislation, negotiating legislative compromises, writing speeches and briefing memos, meeting with constituents, and conducting background research. The AMS-UCAR Congressional Science Fellow joins more than 100 other fellows through the AAAS Science and Technology Policy Fellowship Program.

Fellows must be US citizens and complete all requirements for their Ph.D. prior to the start of the fellowship year, which runs from September 1, 2007 through August 31, 2008. Support includes a \$50,000 stipend, and up to \$10,000 for moving, travel, health care, and other expenses.

Applications must be submitted by 1 February 2008. Details are available at www.ametsoc.org/CSF. For additional information contact Paul Higgins (phiggins@ametsoc.org).

--

Dr. Paul Higgins
Senior Policy Fellow
American Meteorological Society

1120 G Street NW, Suite 800
Washington, DC 20005
phone: 202-737-9006 ext 433
fax: 202-737-9050
<http://www.ClimatePolicy.org>

20. Switzer Environmental Fellowships

This e-mail is going out to all of our faculty contacts and academic colleagues in California to inform you that the application period for Switzer Environmental Fellowships is now open. We would also like to highlight important new developments in our program.

First, one important change from prior years is that we are no longer requiring nominations for the Fellowship. Instead, qualified Fellowship applicants should submit applications directly to the Switzer Foundation per our updated program guidelines available at <http://www.switzernetwork.org/fellowship-guidelines.html>. All necessary forms and materials are available online at <http://www.switzernetwork.org/fellowship-forms.html>. Without nominations, we will be relying on you to forward this information to graduate students, faculty and administrative offices as appropriate.

Secondly, after going through a strategic visioning and planning process this past year, we have decided to increase the number of Fellowships awarded in southern California, in recognition of the unique environmental challenges and needs for the region. Thus, in addition to our usual statewide search for promising candidates, we are seeking outstanding candidates from southern California schools, especially those whose studies are directed to environmental problem-solving in the region. For this year, we are increasing the number of California fellowships to 13, and dedicating at least five Switzer Environmental Fellowships to southern California graduate students.

This year's application deadline is Thursday, February 1, 2008. Again, no nominations are required! However, in passing on information to your students, we would ask that you exercise the same careful level of evaluation as you would when nominating a student in the past. Competition for the fellowships is intense, and we expect it to increase this year. Ensuring that your students meet the Fellowship criteria before sending them through the application process will save students a lot of time and energy. Students are still required to submit two letters of recommendation along with their application, so your continued involvement in our program and in identifying strong candidates is critical.

The Switzer Foundation Environmental Fellowship is more than the \$15,000 cash support for academic studies. We support Fellowship recipients with a variety of other grant and career support programs, and leadership potential is a more significant factor in our evaluation than the specifics of a particular graduate research project.

21. CleanTech Speech Writer wanted for local VC

Do you have any experience in speechwriting? And an interest in the cleantech field? I'm working with a local cleantech venture capitalist (Ira Ehrenpreis of Technology Partners) to create his keynote presentation for the Cleantech Summit conference. We're looking for a Stanford student with significant speechwriting experience (and an interest in cleantech) to help take this talk to another level. It's a great opportunity to work with Ira, who is one of the leading cleantech VCs (and recently became the first cleantech-focused VC elected to the NVCA board). Please let me know your background / qualifications by emailing Kelsey Lynn at lynn_kelsey@gsb.stanford.edu Most of the work would be between Thanksgiving and Christmas. Thanks!

Kelsey B. Lynn
MBA Candidate, Class of 2008
Stanford Graduate School of Business

(650) 743-3739
Lynn_Kelsey@gsb.stanford.edu

JOBS JOBS JOBS JOBS JOBS JOBS JOBS

22. ICF International: Climate Change Consultant, SF

ICF International - has a number of positions open for researchers and consultants in our climate change practice. Our team has been quite successful lately and is looking to expand - there are positions available in New York, San Francisco, Los Angeles, Toronto, Houston, and the DC area.

You can see the jobs here by selecting "climate change" under are of interest: <https://jobs.icfi.com/joblist.html>.

Please let me know if you're interested or have any questions, job description is below.

Contact Cody Taylor: ctaylor@icfi.com

Climate Change Consultant

ICF International is adding staff to its climate change team in San Francisco to support a wide range of climate change mitigation projects. Our clients include some of the most recognizable Fortune 500 global corporations, as well as a variety of industry, NGO, and Government organizations. We seek creative problem-solvers, able to work as part of a team and independently, applying a wide range of analytical and communications skills.

What you will do: You will contribute to and possibly manage one or more projects pertaining to the design and management of climate change engagements, mostly for publicly traded companies. This could include preparation of organizational CO2 inventories, including building energy benchmarking; and the development of climate impact mitigation strategies.

On a daily basis you might develop spreadsheet analyses, conduct bibliographic searches and literature reviews, brainstorm ideas, identify and analyze carbon offsets, prepare written summaries of research and reports for clients, conduct telephone surveys to gather detailed information, attend client meetings and assist with or lead proposals. Your experience and capability will determine the breadth of your responsibility.

What experience are we looking for? You should have demonstrated experience in at least two the following areas:

- Project design, including identification, analysis and selection of appropriate sustainable practices (energy efficiency, green building, climate change, or other environmental measures)
- Project implementation including development and execution of detailed and effective implementation and management plans
- Building energy use analysis, possibly including the use of specialized benchmarking or building energy simulation software
- Energy engineering
- Analysis of carbon offset markets and/or the acquisition of offsets
-

Experience: We will consider range of experience and academic degrees. An undergraduate degree is essential and a graduate degree is strongly preferred. Ideal academic disciplines include engineering, economics, public policy, and environmental science. Directly related experience will substitute for graduate degrees.

ICF International offers an excellent benefits package and competitive salary. To apply, please submit your cover letter,

resume and salary requirements.

ICF International is an equal opportunity and affirmative action employer.

Contact Cody Taylor: ctaylor@icfi.com

23. NRDC: Energy Program SF & DC

We've extended the deadline on these jobs until 11/30. Please encourage folks to apply!

Subject: Energy Program Job openings - SF & DC

The Energy program is seeking applicants to fill two positions for the title of Energy Codes and Standards Analyst/Advocate. One position will be based in our San Francisco office; the other in our Washington, DC office. The application period for this position has been extended and will now close on November 30th.

If you would like more information on these postings visit <http://www.nrdc.org/jobs/>. Please pass this on to any colleagues you know that may be interested in applying or that you want to encourage to apply.

Shari Walker

Energy Program Administrator
Natural Resources Defense Council
111 Sutter Street, 20th Floor
San Francisco, CA 94104
Ph. 415-875-6100/Fx. 415-875-6161

And some more NRDC jobs:

Subject: 3 NRDC Jobs - Smart Growth & Energy Efficiency
Date: Mon, 22 Oct 2007 20:40:53 -0700

California Smart Growth Advocate in SF (10/24 cutoff date) <http://www.nrdc.org/jobs/searchjobs.asp?u=http%3A%2F%2Fwww%2Eprohire%2Ecom%2Fcandidates%2Fjobprofile%2Ecfm%3FszWID%3D16314%26szCID%3D73415%26szOrderID%3D442257#>

2 Energy Codes and Standards Analysts/Advocates, one in SF (end of month) <http://www.nrdc.org/jobs/searchjobs.asp?u=http%3A%2F%2Fwww%2Eprohire%2Ecom%2Fcandidates%2Fjobprofile%2Ecfm%3FszWID%3D16314%26szCID%3D73415%26szOrderID%3D448098#>

And one in DC (end of month) <http://www.nrdc.org/jobs/searchjobs.asp?u=http%3A%2F%2Fwww%2Eprohire%2Ecom%2Fcandidates%2Fjobprofile%2Ecfm%3FszWID%3D16314%26szCID%3D73415%26szOrderID%3D448214#>

24. Program Associate, Southwest Energy Efficiency Project, Boulder

Description: The Southwest Energy Efficiency Project (SWEET) is seeking a talented individual to work as a Program Associate in our main office in Boulder, CO. The responsibilities for this position include:

- * conduct research and write memos, articles and case studies on topics related to energy efficiency in the Southwest region;
- * respond to questions about SWEET and its activities including interacting with journalists;
- * assist with preparation of SWEET studies, reports, legislation and testimony;

- * help organize workshops and other events;
- * compile information for the SWEEP web site; and
- * assist with administrative functions in the SWEEP office.

The program associate will work closely with and assist other SWEEP staff as well as conduct projects independently.

Qualifications: Applicants should have some experience in the environmental and/or energy fields. Masters degree or Bachelors degree plus two years experience at a minimum. Strong communications and computer skills. Ability and desire to "multi-task", and willingness to perform some administrative work. Experience working on energy efficiency issues is a plus, as is experience working in non-profit organizations. Last but not least, a personal commitment to a cleaner environment and more sustainable future.

Compensation: Salary range is \$40,000-50,000 depending on experience, plus excellent benefits.

Application Deadline: Nov. 30, 2007

To apply, send brief cover letter and resume (no phone calls, please) to:

Program Associate Opening
 SWEEP
 2260 Baseline Rd. Suite 212
 Boulder, CO 80302

25. Regional Greenhouse Gas Initiative: Executive Director, NYC

The Regional Greenhouse Gas Initiative (RGGI), comprising ten states from the Northeast and Mid-Atlantic regions, is the first mandatory, market-based carbon cap-and-trade program in the USA.

RGGI, Inc., a non-profit corporation located in New York City, with five staff and a \$2 million annual budget, will provide technical and administrative support to RGGI States in implementing the program. This will include supporting development and implementation of an emissions and allowance tracking system, allowance auctions, and emissions offset component.

The Executive Director will manage the organization, the staff and budget; facilitate communications; and work closely with the Board.

RGGI, Inc. seeks candidates with:

- * Significant knowledge of, and experience in, emissions and/or commodities trading, financial markets expertise, wholesale electric power markets, or other environmental market-based mechanisms;
- * Knowledge of environmental and energy regulatory programs;
- * Demonstrated leadership capabilities;
- * Excellent communication and management skills.

Compensation: Salary and benefits package commensurate with qualifications and consistent with similar organizations.

Applications: Send cover letter and CV in Word or PDF format by December 31, 2007
to RGGI@nescaum.org or mail to:

Regional Greenhouse Gas Initiative
Executive Director Search Committee
c/o NESCAUM
101 Merrimac Street, 10th floor
Boston, MA 02114

Additional information can be found at www.rggi.org.

26. Collaborative for High Performance Schools

The Collaborative for High Performance Schools (CHPS, pronounced "chips") is a non-profit organization dedicated to building a new generation of K-12 schools that are high performance, green, healthy learning environments for children. CHPS members include state agencies, utility partners, manufacturers, design firms and school districts. CHPS administers a variety of programs to promote "greener" and healthier schools through design, construction and operation. CHPS is seeking an Education & Events Coordinator and a Technical Programs Coordinator to assist in these activities. Please visit www.chps.net to learn more about CHPS.

Positions are open until filled. Click on the positions below to learn more about them and how to apply.

[Education & Events Coordinator](#)

[Technical Programs Coordinator](#)

<http://www.chps.net/Jobs.htm>

27. Commercial Green Buildings Coordinator, SF Dept of Enviro

San Francisco Department of the Environment
5642 Senior Environmental Specialist
Commercial Green Building Coordinator

Appointment Type: Provisional
Filing deadline: November 20, 2007
Salary: \$ 36.0250 - 43.7875 per hour; \$74,932 - \$91,078 annually
Date Issued: 10/1/07
FULL-TIME POSITION

Program Background:

The mission of the City and County of San Francisco Department of the Environment (SF Environment) is to improve, enhance, and preserve the environment, and to promote San Francisco's long-term environmental sustainability. SF Environment includes Recycling, Toxics Reduction, Environmental Justice, Clean Air Transportation, Climate Change, Energy, Green Building, Urban Forest and Public Information Programs.

Position Description:

The Commercial Green Building Coordinator is responsible for promoting and

facilitating the design and construction of resource efficient buildings in San Francisco's commercial sector. The position is responsible for designing and implementing programs in conjunction with other City agencies, for raising funds and managing professional services contracts, and for technical assistance and coordination in the development of policies to further green building in the commercial sector.

This position serves as a senior staff level position in the City and County of San Francisco Department of the Environment (www.sfenvironment.com). This is the advanced journey level in the series. Class 5642 Senior Environmental Specialists work under the supervision of Class 5644 Environmental Program Managers, meet weekly with Program Managers, and have day to day decision making responsibilities for projects as well as the ability to negotiate within project scopes. Positions in this class are assigned to six distinct specialties. This position is Green Building Specialty position.

1. Possession of a baccalaureate degree from an accredited college or university, and five (5) years of professional experience managing and implementing environmental programs. Three (3) years of this experience managing and implementing green building related programs; OR
2. Possession of a baccalaureate degree in public administration, business administration, environmental science or a closely related field from an accredited college, and four (4) years of professional experience managing and implementing environmental programs. Three (3) years of this experience managing and implementing green building related programs; OR
3. Possession of a master's degree in public administration, business administration, environmental science or a closely related field from an accredited college of university, and two (2) years of professional experience managing and implementing green building related programs;
AND
4. Possession of a valid Driver's License

Desirable Qualifications

LEED Accredited Professional

Knowledge, Skills and Abilities:

Knowledge of: Green building and resource efficient technologies; the design, development and construction of green building projects; current trends and developments in green building technologies, markets and related industries; relevant federal, state, and local programs, laws, policies, and organizations; green building certification programs utilized by private and public sectors.

Ability to: Conduct research and analysis; utilize a personal computer, including word processing, spreadsheet, and project management software; communicate effectively both orally and in written format; write proposals and reports; work with public, private, and government agencies; design, plan, and manage programs and budgets; motivate and manage personnel.

Applications for City and County of San Francisco jobs are being accepted through an online process. Visit www.jobaps.com/sf to begin the application process by registering an account.

Computer kiosks are located in the lobby of the Department of Human Resources, 44 Gough Street, San Francisco, for use by the public. The hours of operation are from 8:00 a.m. to 5:00 p.m. Monday through Friday. Applications for this recruitment process will be accepted from Monday October 1, 2007 until Tuesday, November 20, 2007

28. Sr. Analyst - Strategic Operations, OptiSolar, SF

Renewable energy is needed now more than ever and solar power is poised to make a significant and cost effective contribution. OptiSolar Inc.'s innovative team and equipment allow us to provide clean, low cost renewable energy now and for our children's future. We have a core management team with experience in the energy business and thin film amorphous silicon solar panels, as well as passion to make a difference in our world.

Description:

The successful candidate will provide analytic support for senior management decisions, with a particular focus on operational issues. As an internal consultant, the candidate must be flexible and enthusiastically tackle a variety of projects as the issues facing the company evolve. The following is a list of representative projects.

- Manufacturing location optimization
- Manufacturing processes fuel choice analysis
- Cost analysis and due diligence to support purchasing strategy
- Grant application development (R&D program)
- Investment decision analysis (incl. discounted cash flow analysis)
-

Candidate will regularly use and develop sophisticated financial models with an emphasis on corporate impact. Successful candidate will individually manage projects thereby utilizing a broad set of skills, including issue and data analysis, problem solving and communication

Experience:

- Project management and planning skills
- Quick learner/self starter, with the ability to work in unstructured environments
- Strong analytical skills, with the ability to identify key business issues/drivers
- Advanced spreadsheet skills, with the ability to manage large amounts of data
- Strong organizational skills, with keen attention to detail
- Strong oral and written communication skills for successful interaction with employees across the organization as well as presentation to project teams and senior management
-

Education

- BA / BS from a top university
- Engineering degree preferred (esp. Industrial Engineering or Operations Research)
- Two to five+ years work experience, with a focus on operations or optimization analysis
- Strong interest in renewable energy technologies
- MBA preferred
-

We provide a comprehensive benefits package including 15 days PTO, 10 days Paid Holiday, medical, dental, vision, 401(k) and competitive salary. At OptiSolar we operate in a casual teamwork environment. If your experience and skills meet or exceed our requirements please e-mail your resume in Word format to mpeloquin@optisolar.com

or fax to (510)-401-5701. Please include job code "2007-145 AP" and "energyfolks" in the subject line.

29. Energy/Environment Legislative Assistant, Rep. Tom Udall (NM)

Johanna F. Polsenberg
Senior Legislative Assistant
Representative Tom Udall (NM-3rd)

e-mail: johanna.polsenberg@mail.house.gov

web: tomudall.house.gov

For Rep. Anna Eshoo [D-CA] --

ENERGY/ENVIRONMENTAL LEGISLATIVE ASSISTANT: Senior Democratic Member of the Energy and Commerce Committee seeks energetic, experienced Legislative Assistant to cover energy and environmental issues, particularly issues related to global climate change and energy independence as well as related appropriations. Qualified candidates should have a demonstrated expertise in energy or environmental issues and at least two years of legislative experience. Strong writing, analytical and organizational skills are essential, as well as pride in work product and attention to detail. Salary is commensurate with experience. Send résumé, cover letter, and two writing samples to dcstaffer@mail.house.gov or fax to (202) 225-8890. No phone calls please.

30. 3Degrees: REC and VER contract manager, IT Associate, SF

3Degrees is a national leader in the retail of renewable energy credits and carbon emission reductions. We engage customers to develop, execute, and communicate sustainability strategies that add value to their brand. Our expertise in sourcing verified emission reductions and renewable energy certificates enables customers to reduce their carbon footprint. Our mission is to reduce the magnitude of climate change.

3Degrees' headquarters, located in the Presidio in San Francisco, is in need of a motivated, detail oriented, and reliable individual for our Origination and Trading department. This full time position will support 3Degrees' portfolio of REC and VER supply contracts and will involve ongoing outside interaction with suppliers, verifiers, and registries.

This job will be a good fit for someone with experience in ongoing relationship, data, or contract management who is interested in learning about renewable energy and carbon markets. This position will require an organized and reliable individual with the flexibility and desire to work in a developing market.

CORE DUTIES

Contract Management

- ... Process new transactions
- ... Initiate and manage contracting process
- ... Maintain and update transaction and contract records

Contract Fulfillment

- ... Responsible for timely fulfillment by 3Degrees and its counterparties
- ... Process contract receivables
- ... Prepare contract deliverables

Verification

- ... Competitively select qualified project verifiers
- ... Manage suppliers and verifiers to complete verification

Registries and Tracking Systems

- ... Primary contact for registries and tracking systems.
- ... Register new projects with registries or tracking systems

Project Profile Management

- ... Ensure new project profile information is delivered to our Creative Department
- ... Manage development and maintenance of project profiles

REQUIRED SKILLS

- Strong written and verbal communication skills
- Ability to effectively manage multiple activities simultaneously and meet deadlines
- 2+ years of experience in relationship, data, or contract management

DESIRED CHARACTERISTICS

- 4-year college degree
- Experience with Microsoft Access or other database software
- Positive, team-oriented attitude
- Desire to learn and take on new responsibility
- Internally motivated

COMPENSATION

Salary commensurate with experience. Excellent benefit package.

INTERESTED CANDIDATES

If you are interested in helping make the world a cleaner, more renewable place and this role is a good fit for you, please review the 3Degrees website for additional information about the organization (www.3degreesinc.com) and submit a resume and cover letter to careers@3degreesinc.com. Please write "Contract Manager" in the subject heading. NOTE: emails without the words "Contract Manager" in the subject will NOT be read. Application deadline: Nov 30th. Please, no phone calls.

and..

Customer Partnership & IT Associate

POSITION SUMMARY

The 3Degrees' headquarters office in San Francisco's Presidio is looking for a motivated, confident, detail-oriented Customer Partnership & IT Associate to join our team. This is a great opportunity for an individual who enjoys wearing multiple hats and managing multiple responsibilities. This position requires a unique individual to support 3Degrees in the areas of Customer Partnerships, Business Development, and IT administration.

This position will work primarily with the Customer Partnerships, Business Development and IT teams. The successful applicant will maintain and improve 3Degrees' computers, network and servers; respond to customer inquiries; support the development of customer outreach materials; and interact closely with the Marketing and Creative Design function of the company. This position will be a good fit for anyone interested in becoming involved with renewable energy; carbon offset projects; and Sales and Information Management in a growing, progressive company.

The ideal candidate is an excellent communicator, both with customers and fellow employees, who works well under pressure while being patient and responsive to customer and user requests. Interpersonal and technical skills will need to be employed simultaneously in order to fulfill the duties of this position. Finally, the ideal candidate will become a vital, competent, and active participant in 3Degrees' operations.

CORE DUTIES:

- * Assist the Customer Partnerships and Business Development teams in developing marketing ideas for the company and its customers
- * Create support documents for Business Development team
- * Perform market research and contribute to the marketing analysis and 3Degrees marketing materials
- * Respond to user requests for hardware/software/connectivity assistance and problem resolution
- * Execute & assist in management of network maintenance and operations
- * Manage setup of new users
- * Manage existing vendor relationships (both equipment and consulting)
- * Assist in developing and executing IT strategy for company
- * Troubleshoot common user issues reliably and accurately
- * Install and configure desktop computers, laptops, printers and related equipment
- * Maintain accurate records of work performed
- * Provide basic support related to Windows 2000/XP/Vista and Windows Server 2003
- * Respond to incoming requests for information from visitors to the website

DESIRED CHARACTERISTICS

- * Attention to detail and quality
- * Ability to think flexibly and adapt to changing business conditions
- * Sense of humor and ability to work in a team environment
- * Enthusiasm for climate change solutions
- * The desire to learn and take on new projects
- * Good organizational skills
- * Intelligence and creativity

TECHNICAL KNOWLEDGE REQUIREMENTS:

- * Windows operating systems
- * Standard software for personal business computers
- * Database applications (Access experience is preferred & MySQL experience earns you a star)
- * General networking concepts including VPN and wireless & LAN technologies
- * Active Directory and Windows user management concepts
- * Mac OSx (preferred)
- * Adobe Creative Suite (preferred)

COMPENSATION

Compensation is commensurate with experience.

INTERESTED CANDIDATES

If you are interested in this position, please review the 3Degrees website for additional information about the organization at www.3degreesinc.com. To apply, please email your resume and cover letter to careers@3degreesinc.com. Please write "Customer Partnership & IT Associate" in the subject heading, as only applications with this subject heading will be accepted. The position shall remain open until filled.

31. Intl Council for Science, Paris

As you may be aware, Prof. Thomas Rosswall will be retiring as Executive Director of ICSU, the International Council for Science, at the end of January 2009 and the process is now underway to identify his successor. I attach a copy of the advertisement which appeared in Nature and Science in September and should be grateful if you would ensure that potential candidates in your community receive it. Please note that the deadline has now been changed to 30 November. ICSU is one of the international organisations which have established DIVERSITAS. For more information, please visit: <http://www.icsu.org>

Dr. Anne Larigauderie

Executive Director
DIVERSITAS
Museum National d'Histoire Naturelle (MNHN)
57, Rue Cuvier- CP 41
75231 Paris Cedex 05
France

Tel: 33 1 40 79 80 41 (direct)
Tel: 33 1 40 79 80 40 (secretariat)

e-mail: anne@diversitas-international.org

www.diversitas-international.org

32. ACEEE: Industrial Energy Efficiency, DC

Description: The American Council for an Energy-Efficient Economy (ACEEE) is seeking a Research Associate in its Washington, D.C. office. The position involves research and policy development related to energy use in manufacturing and the implementation of clean distributed generation technologies with a focus on the industrial sector. A position with ACEEE offers the opportunity to work with an outstanding organization that provides information and advice to policymakers and the manufacturing sector, shaping programs and policies that protect the environment and enhance the economy. Project areas include:

- ... Develop and review of government and utility programs to encourage greater energy efficiency in the manufacturing sector. This activity includes: assisting in the design of programs and undertaking targeted research to assist in this task; facilitating meetings among efficiency program directors, and between public interest groups and industrial companies on energy efficiency issues and policies.
- ... Assess energy- efficient technologies, processes, and feed stocks that can increase the efficiency of manufacturing and manufactured products.
- ... Track energy and industrial commodity market trends, and assessment of the role of energy efficiency in insuring available and affordable energy for the manufacturing sector.
- ... Assess the potential for energy efficiency in the industrial sector and development of policies that can facilitate its implementation. This project area will also involve coordination with ACEEE's policy program on multi-sector potential assessments at the state and national level.
- ... Assessment of the policies to promote and the barriers to adoption of clean distributed energy technologies, particularly in manufacturing, including combined heat and power and recycled energy.
- ... Research, analysis, and preparation of technical reports, articles, and presentations on industrial energy efficiency technology, programs and policy issues.

Minimum Qualifications: Master's degree with two years relevant experience, or bachelors degree plus five years of relevant experience in engineering, physical science, or mathematics, with experience interacting with industrial companies and strong interest in manufacturing energy use and energy systems highly preferred; excellent analytical, writing, and communications skills; demonstrated ability to work independently. Knowledge of economics, and energy, environmental, and utility policy desirable.

Timing: Position will be filled as soon as a suitable candidate is found.

Salary: Commensurate with experience.

To Apply: Email a resume, sample work product(s), and a brief cover letter to job_opening@aceee.org. Please use "Industrial Associate" as the subject header. No phone calls, please.

The American Council for an Energy-Efficient Economy is a nonprofit organization dedicated to advancing energy efficiency as a means of promoting both economic prosperity and environmental protection. ACEEE is an equal-opportunity employer and is committed to a policy of nondiscrimination with regard to race, sex, color, age, religion, creed, class, sexual orientation, national origin

33. 3TIER : Wind Energy Forecasting Analyst, Seattle

3TIER is an up and coming alternative energy consulting company with locations in Seattle, Washington and Panama City, Panama. We provide core data and knowledge to our clients so that they can make the best decisions regarding their investment in renewable energy generation. To learn more about us, please visit www.3tiergroup.com.

3TIER has an outstanding opportunity for a dynamic candidate with a blend of computer and physical science skills for a position as a Wind Energy Forecasting Analyst. The prospective employee will help ensure timely delivery of the highest quality wind energy forecasts in the industry, serve as a technical point of contact for clients, and participate in statistical validation of 3TIER's wind energy forecasts. If you are passionate about renewable energy and have the drive to succeed, we want to hear from you. Apply today!

We have other positions available as well. To apply and find more of the job description, go to <http://seattle.craigslist.org/see/sci/460750945.html> or go to <http://seattle.craigslist.org/> and search the jobs listings for 3TIER. Also feel free to contact me about the jobs.

Kristin

Other positions:
Systems Administrator (Seattle, WA)
Renewable Energy Data Processing Specialist (Seattle, WA)
System Programmer (Seattle, WA)
Wind Energy Forecasting Anaylst (Seattle, WA)
Systems Administrator (Seattle, WA)
Renewable Energy Data Processing Specialist (Seattle, WA)
System Programmer (Seattle, WA)
Software Development Engineer (Seattle, WA)
System Programmer (Seattle, WA)

Kristin Ann Larson
Kristin_A_Larson@yahoo.com

34. GreenVolts Engineering Job Openings

GreenVolts is a solar power start-up developing concentrated photovoltaic technology for the utility market since 2005. Our unique technology will deliver clean, reliable energy to utility companies on a massive scale - so that they can provide green, CO2 emission free, energy to the public economically and with only a flick of the switch. The GreenVolts' system will allow everyone to enjoy green energy directly from their regional power grid.

- ... R&D Power Electronics Engineer (MS in EE or a related field, or a BS with strong work experience; 3-8 years work experience desired)
- ... R&D Embedded Systems Engineer (MS or BS with strong experience in EE, ME, CS or related fields; At least 2 years work or internship experience working with embedded microcontrollers)
- ... R&D Mechatronics Engineer (MS or BS with strong experience in EE, ME, CS or related fields; 3-8 years work experience)
- ... R&D Mechanical Engineer (MS or BS with strong experience in ME or related fields; 0-5 years work experience)
- ... R&D Optical Design Engineer (MS or PHD in an optics or physics related field)

Please visit Greenvolts.com for details on job descriptions or send your resume to jobs@greenvolts.com (please include the job title in the subject line). Thanks!

Human Resources
GreenVolts, Inc.

35. CH2MHill Informational Job Open House at Stanford, Nov 15 2-4 pm

Bechtel International Center
Assembly Room

Time:
2pm - 4pm

Why:
To learn more about the great career opportunities at CH2M HILL and talk with CH2M HILL Engineers in many disciplines including Civil, Environmental, Mechanical, and Electrical; other disciplines represented will include Environmental Planning with a focus on Sustainable Solutions and Biology. Get your resume to the right people and enjoy free FOOD and GIVEAWAYS!

Who We Are:
Headquartered in Denver, Colo., employee-owned CH2M HILL is a global leader in engineering, construction and operations for public and private clients. With \$4.5 billion in revenue in 2006, CH2M HILL is an industry-leading program management, construction management for fee and design firm, as ranked by Engineering News-Record (2007). The firm's work is concentrated in the areas of transportation, water, energy, environment, communications, construction and industrial facilities. The firm has long been recognized as a most-admired company and leading employer by business media and professional associations worldwide. CH2M HILL has more than 23,000 employees in regional offices around the world.

ALL ARE WELCOME TO ATTEND THIS INFORMATIONAL SESSION!
PLEASE BRING COPIES OF YOUR RESUME!
FOOD AND DRINK PROVIDED!
TO RSVP: julie.kopp@ch2m.com
FOR MORE INFORMATION CHECK WITH CAREER SERVICES
CH2M HILL: Developing People through Challenging Projects
www.ch2mhill.jobs/college

36. OptiSolar: Sr. Electrical Engineer

You will be part of the core team responsible for defining, developing, and transitioning to production very large scale PV energy plants capable of being installed at breakthrough cost levels. Required skills include:

High Power (>10MW) Electrical Engineering and Design

- * Step-up transformers, their cost, significance of single or multiple step-ups on systems cost, performance, and reliability
- * Safety features and devices
- * 1-line and 3-line schematics
- * Working directly with component manufacturers and sub-contractors
- * Ability to creatively consider cost reduction ideas and strategies
- * Well versed in all applicable codes (NEC, UL, NESC, etc.)
- * Knowledgeable in power distribution practices
- * The ideal candidate will have knowledge of underground and overhead distribution practices and the hardware used

Sub-Station and Grid Interconnection up to 500kV

- * Sub-station design concepts, specifications, and oversight of detail design sub-contractors
- * Construction bid review, contractor selection, and installation oversight
- * 1-line and 3-line schematics
- * Detailed component specifications, safety equipment, disconnects, relays and their settings, metering, SCADA
- * Able to trade efficiency, output, and costs to optimize system
- * Knowledge of the basic substation and distribution equipment and the cost tradeoff with functionality within each equipment classification (ie. tradeoffs between fuses vs breakers, overhead vs. underground)
- * Electrical sizing of sub-station and medium voltage elements including wiring, safety disconnects, transformers, , buried cable, etc.
- * Preparation of detailed design drawings and bills of material

Work experience requirements:

- * At least 10 years in high power (multi-MW) and sub-station design (up to 500kV)
- * Knowledge of electrical design software packages such as ETAP, GE PSLF, Aspen or Cyme performing functions such as load flow calculations, arc flash studies, breaker/protection coordination and setting calculation, ground grid calculations and transmission line sizing a plus
- * AutoCAD or similar drafting experience preferable
- * Must demonstrate strong engineering, design, and communication skills, and an ability to work in a dynamic team environment to think outside the box and solve traditional problems in new ways

P.S. If you cannot view the links, paste the appropriate link into your browser: Job Listing: <http://www.linkedin.com/e/vjb/423555/>

37. NRDC Codes and Standards, SF and DC

NRDC is in the middle of recruiting for new two new codes and standards positions, one in our San Francisco office and the other in DC. I'd greatly appreciate your help in pointing qualified candidates (from outside your organization of course) our way.

The new hires will be working under the supervision of David Goldstein and myself.
Thanks in advance for your help,

Noah Horowitz
Sr. Scientist
Natural Resources Defense Council
111 Sutter Street, 20th Floor
San Francisco, CA 94104

415-875-6100
nhorowitz@nrdc.org

Job Announcement

Energy Codes and Standards Analyst/Advocate
San Francisco Office

Categories: Scientist, Engineer, Policy Analyst or Attorney

The Natural Resources Defense Council (NRDC) is a non-profit national environmental advocacy organization with more than 1.2 million members and online activists. We have offices in New York, Washington, D.C., Chicago, San Francisco, Los Angeles and Beijing. Our staff of 350 includes attorneys, scientists, policy analysts and educators working to protect the environment and public health through advocacy and education.

Position Description:

The Energy Program focuses on curbing global warming by advancing sustainable energy solutions such as energy efficiency, location efficiency, renewable energy, cleaner vehicles, and renewable fuels. The San Francisco analyst/advocate would be an integral part of the California Energy Program team promoting effective policies to reduce the emissions of greenhouse gas emissions and health related air pollutants that are emitted as a result of the building sector in a manner that provides other economic and environmental benefits nationally and globally. The analyst/advocate will work with government, non-profit, and business organizations that promulgate or advocate energy codes and appliance/equipment standards to encourage upgrades in standard level, improvements in specification of the standards, and enforcement, to maximize environmental and economic benefits.

This position represents a challenging, entrepreneurial, and enjoyable opportunity for the right person.

Essential Functions/Responsibilities:

This position will focus on the development and implementation of building energy codes and appliance/equipment standards at the state level, with particular emphasis on California. California has what is widely considered the world's most advanced energy efficiency standards both for new residential buildings and new construction in commercial buildings. Beyond this, the California Energy Commission follows a three year schedule in updating these standards to greater levels of efficiency. Yet, there are weaknesses in the California standards that allow important energy savings to be lost. These lost savings are magnified because of California's potential and demonstrated track record in influencing energy codes in other regions, not just in the United States but throughout the world.

The analyst/advocate will work with state officials, utilities, businesses, and nonprofit organizations to investigate where the largest energy savings can be induced from energy code upgrades, and will assure that adequate technical information is gathered and presented to incorporate the se new technologies and design improvements into enforceable code upgrades. He or she will work with other stakeholders to assure the necessary political and analytic support to get them adopted and enforced. The analyst/advocate will monitor enforcement and suggest methods for improvement, in coordination with utility-sponsored incentive program activities.

California has also been a leader in developing energy efficiency standards for new products such as small transformers ("vampires") that formerly consumed large amounts of energy even when the product they were powering was turned off. In the case of equipment standards, as well, California's ability to set standards for additional products and for higher levels of efficiency is constrained by the lack of technical analysis and political advocacy that can support broader and deeper levels of energy efficiency requirements. The analyst/advocate will participate in new and ongoing California Energy Commission standards proceedings and will coordinate this effort with standard setting activities in other jurisdictions nationally and globally, and will initiate activities directed at including additional products in California standards.

Skills and Expertise Requirements:

This position requires a thorough understanding of building science, particularly with respect to energy consumption and efficiency, and the ability to learn about the technical basis of a range of energy-consuming products, as well as policy expertise. While this position will focus on mandatory measures such as codes and standards, these must be developed in

a policy context that includes other mechanisms such as financial incentives, labels, recognition programs, etc.

While this position is multi-disciplinary and requires creativity and innovative thinking more than any specific technical background, the following skills and experiences will be helpful to the successful candidate:

- ... Graduate or professional degree in physics, engineering, business, public policy, economics, law, or other relevant discipline.
- ... At least two years of relevant work experience in advocacy; architecture, engineering, or construction; building science; or energy diagnostics in buildings.
- ... Familiarity with test protocols and standards for appliances and equipment and with California and model national standards for energy efficient construction.
- ... Persuasive oral and written advocacy skills.
- ... Ability to build and work with coalitions.
- ... Strong quantitative and analytic capabilities.
- ... Knowledge of how business operates when confronted with requirements for meeting environmental standards such as energy efficiency.

We offer competitive salaries, excellent benefits, and a pleasant working environment and are committed to workplace diversity. Salary is commensurate with experience. Applicants should send resume, cover letter and salary requirements to hr_sf@nrdc.org or to the following address. No phone calls or faxes. The deadline to apply is October 29, 2007. Please reference where you saw this posting. NRDC is an Equal Opportunity Employer.

NRDC - Department JA
111 Sutter Street
San Francisco, CA 94104

For further information about NRDC, please visit www.nrdc.org

38. California Organizer: Union of Concerned Scientists, Berkeley

The Union of Concerned Scientists (UCS) seeks a dynamic organizer to build momentum for clean energy, clean vehicles, and effective global warming policies in California. Under direction of the California Outreach Coordinator, the Organizer will develop and implement outreach and organizing projects including cultivating relationships with key allies and recruiting and mobilizing activists through on-the-ground efforts and web-based organizing tools.

**

UCS is the leading science-based nonprofit working for a healthy environment and a safer world. UCS combines independent scientific research and citizen action to develop innovative, practical solutions and to secure responsible changes in government policy, corporate practices, and consumer choice. UCS was founded in 1969 and currently has a membership and activist base of over 200,000, a staff of 125, and offices in Cambridge (MA), Washington (DC), and Berkeley (CA). The Berkeley office focuses on clean vehicles, renewable energy, and climate change issues in California.

* *

RESPONSIBILITIES

/The essential job duties/responsibilities of the position are included in but not limited to the information listed below/.

Develop and lead organizing activities with UCS activists, allies, and targeted members of the public in support of UCS's California campaigns on vehicles, energy, and climate issues. Cultivate relationships with key allies such as scientists; Latino leaders; labor, religious, business, and environmental justice groups. Help build a foundation of engaged, educated, and active UCS activists and other allies in key areas of the state.

Maintain, expand, and utilize the California super-activist database through on-line and off-line activities. Contribute to relevant California action alerts to notify UCS activists of opportunities to influence policy decisions. Help to explore and develop creative new ways to use UCS's electronic organizing tools. Work with analysts to keep the UCS website up-to-date.

Actively look for other outreach opportunities to advance UCS campaigns and organizational goals in California. Design activities and events to target specific audiences and constituencies.

EDUCATION AND EXPERIENCE

Position requires knowledge of grassroots organizing and effective issue campaign development on the local and state levels. Bachelor's degree or equivalent experience is required. Working knowledge of general transportation, energy, and climate policy and the California legislative process is needed, as are skills in public speaking and electronic communication. Fluency in Spanish and English is strongly preferred, as is familiarity with the Central Valley and/or Southern California. Experience with on-line activism and web site management are a plus. Proficiency in word processing and database software is required.

Position requires at least three years of progressively responsible related experience, including organizing and campaign planning/strategy development. Strong writing, verbal, and inter-personal skills absolutely necessary.

***POSITION DETAILS ***

Start date: As soon as possible. Salary commensurate with experience and training. Excellent benefits. Position is located in Berkeley, CA, and will entail occasional travel to the Central Valley and Southern California. *UCS is an equal opportunity employer continually seeking to diversify its staff*.

* *

TO APPLY

Please send a letter of interest and resume to [*cajobs@ucsusa.org](mailto:cajobs@ucsusa.org) <mailto:californiajobs@ucsusa.org>*

Applications will be accepted until December 15, 2007. No phone calls, please.

39. Assistant Director, Energy Initiatives, Princeton

From: Robert Socolow <socolow@Princeton.EDU>
Date: November 1, 2007 6:55:20 AM PDT

Subject: Assistant Director, Energy Initiatives

I am hoping you can help the Princeton Environmental Institute (PEI) fill a new position that presents an opportunity for an exceptionally creative and versatile individual. I am spending most of my time these days at PEI, and this job entails significant responsibility for developing the two programs with which I am most involved: a new academic program (the University's Energy Grand Challenge) and a multi-disciplinary research program (the Carbon Mitigation Initiative). The candidate should have a scientific or technical background. He or she should enjoy working with undergraduates, developing curricula, and writing about the many dimensions of "energy," including technology, policy, and values. The job will provide an opportunity to work closely with faculty leaders in many areas of energy and to change the lives of spectacular students.

This is not a job for someone who wants a traditional research career, but it is for someone determined to invent his or her own career.

Here is the link to the University's job posting: <https://jobs.princeton.edu/applicants/jsp/shared/frameset/Frameset.jsp?time=1193924402790>.

I would appreciate your alerting any persons you feel are well suited.

Many thanks,
Rob

40. Building Science /HVAC Engineer, Sustainable Spaces, SF

Sustainable Spaces
San Francisco, CA
US

Job Type: Full Time

Sustainable Spaces is the Bay Area's premier Building Science firm. We make homes green by evaluating a home's internal systems; identify the steps necessary to improve indoor air quality, comfort and energy efficiency and making those improvements. We are a licensed contractor and a certified green business.

Sustainable Spaces takes pride in delivering high quality work to our clients, and we are known for developing appropriate and innovative HVAC solutions that optimize comfort and energy efficiency within our clients' budget. In addition to remediation on existing homes, we provide consulting regarding building energy loads, efficient, high performance HVAC systems and building envelopes, high-efficiency hot water heating and other sustainable building design strategies for new construction and major remodels.

Principal Responsibilities:

The ideal candidate will be prepared to successfully perform all of the listed job responsibilities. However, Sustainable Spaces will consider training promising candidates that have a strong aptitude and interest in the work. Duties will include:

1. Preparing engineering calculations including heating and cooling load calculations.
2. Developing HVAC and plumbing designs under the supervision of a senior engineer

3. Drafting AutoCAD files of HVAC and plumbing drawing sets
4. Preparing project specifications
5. Preparing energy modeling and energy code compliance documentation
6. Conducting computer simulation of building annual energy performance
7. Managing one's own day to day project tasks and managing client contacts
8. Responding to client questions on energy efficiency and energy code requirements
9. Assisting in the preparation of fee proposals and marketing materials
10. Assisting with technical report writing and research projects

Required Skills and Qualifications

1. A minimum of 2 years experience as a mechanical engineer, preferably with experience in commercial or residential HVAC design
2. Associate or Bachelor's degree in engineering or other technical field.
3. Strong communication, technical and writing skills.
4. Proficiency with AutoCAD, MS Excel, MS Word and Wrightsoft.
5. Detail oriented personality, ability to organize technical information.
6. Ability to pay attention to multiple on-going projects, and handle multiple deadlines.
7. Self-starting personality, able to work independently with minimal supervision
8. Able to communicate well with clients, including setting and managing client expectations.
9. Demonstrated interest in energy efficient building systems and green building design.

Preferred Qualifications

1. Field construction, installation, or oversight experience (particularly residential HVAC)
2. Proficiency with energy simulation programs (such as eQUEST, DOE-2) and an understanding of Energy Pro (Title 24) and HEED
3. Knowledge of the US Green Building Council's LEED rating system and Build It Green's GreenPoints rating system
4. LEED A.P. certification
5. E.I.T. or P.E. license
6. Professional consulting experience and proven project management skills
7. Knowledge of the California State Energy Code (Title 24) and other building codes

8. 3+ years professional work experience

Salary and Benefits

The salary range offered for this position will depend on one's experience. Sustainable Spaces offers a benefit package that includes a contribution towards medical coverage and ten PTO (paid time off) days per year.

We offer an informal and comfortable work place. Individual employees are afforded a great deal of independence and responsibility for their work within our collaborative work environment. We are located in the Mission District of San Francisco at 221 14th Street, San Francisco, CA 94103. Our office is located an easy walking distance from the 16th Street BART stop. We also encourage employees to bike to work.

To Apply

Folks interested in joining our team should review our website thoroughly, and then email a resume and cover letter with "HVAC/Building Science Engineer" as the subject line to jobs@sustainablespaces.com. Applicants who email generic cover letters will not be considered. Please let us know your desired salary.

41. Assistant/Assoc Professor: Environmental Engr (sustainability), UC Merced

- >
- > The University of California is creating a dynamic new university campus
- > and campus community in Merced, California, which opened in September
- > 2005 as the tenth campus of the University of California and the first
- > American research university built in the 21st century. In keeping with
- > the mission of the University to provide teaching, research and public
- > service of the highest quality, UC Merced provides new educational
- > opportunities at the undergraduate, masters and doctoral levels through
- > three academic schools: Engineering, Natural Sciences and Social
- > Sciences/Humanities/Arts cross-school graduate groups.
- >
- > The School of Engineering invites applications from distinguished
- > scholars and teachers at the Associate Professor (tenure-track) level in
- > the area of environmental engineering focused on sustainability science.
- > We seek a multidisciplinary scholar pursuing pioneering and high-impact
- > research that considers coupled human-natural systems, particularly in
- > the area of energy and sustainability. Areas of interest include, but
- > are not limited to, the energy intensity of development, climate change
- > mitigation, and climate change adaptation strategies; availability of
- > natural energy sources; large-scale implementation of renewable and
- > distributed energy sources; and improving end-use and production
- > efficiencies. The candidate will have the opportunity to participate in
- > the activities of the Sierra Nevada Research Institute, a research unit
- > at UC Merced focusing on environmental issues in California's Central
- > Valley and Sierra Nevada, as well as partnerships with sister UC
- > campuses and national laboratories, and the UC Merced Green Campus
- > initiative, which seeks to meet or exceed LEED Silver Certification
- > throughout the campus.
- >
- > The University of California at Merced is an affirmative action/equal
- > opportunity employer with a strong institutional commitment to the
- > achievement of diversity among its faculty, staff, and students. The

- > University is supportive of dual career couples.
- >
- > The successful candidate will have a PhD in a relevant field of
- > engineering, natural science, or quantitative social sciences.
- > Responsibilities include carrying out an extramurally supported,
- > internationally recognized research program; teaching and contributing
- > to the development of undergraduate engineering programs, and mentoring
- > graduate students.
- >
- > Closing Date: 12/31/2007
- >
- > Interested applicants are required to submit 1) a cover letter 2)
- > curriculum vitae 3) statement of research 4) statement of teaching and
- > 5) a list of five references with contact information including mailing
- > address, phone number and e-mail address.
- >
- > Please do not submit individual letters of recommendation.
- >
- > Applications must be submitted via
- > Associate
- > (<http://jobs.ucmerced.edu/n/academic/position.jsf?positionId=1329>)
- > Assistant
- > (<http://jobs.ucmerced.edu/n/academic/position.jsf?positionId=1328>)
- >
- > For more information, please contact Professor Anthony Westerling at
- > awesterling@ucmerced.edu

42. Director of Utility-Scale Solar Policy, Vote Solar

Subject: Fwd: Vote Solar hiring: Director of Utility-Scale Solar Policy
 Date: Wed, 7 Nov 2007 20:45:20 -0800

DIRECTOR OF UTILITY-SCALE SOLAR POLICY

Vote Solar is a nonprofit with the mission of bringing solar into the mainstream. We are planning a new arm to our work: a focus on utility-scale solar, and would like to hire a Director of Utility-Scale Solar Policy.

Utility-scale solar that is, building big solar plants in the desert, generating wholesale solar power is an underutilized resource that has the capability of delivering enormous amounts of emission-free electricity at costs below new coal generation. While the technology is gametime, the regulatory infrastructure to make this market work is not. Vote Solar is developing a new initiative to address the key issues necessary to make the market work (utility resource requirements, transmission, land access, and tax issues) and then implement them in CA, NV, AZ, and NM.

We are looking for a top-notch, experienced

individual to lead this work. It's an exciting opportunity: success will mean the birth of an industry capable of delivering multi-gigawatts of clean, carbon-free electricity, and new hope in the fight against global warming.

Details, responsibilities, qualifications here:

<http://www.votesolar.org/linked-docs/vsi_dir_utilityscale.pdf>http://www.votesolar.org/linked-docs/vsi_dir_utilityscale.pdf

Resume, letter of interest, and writing sample to <<mailto:adam@votesolar.org>>adam@votesolar.org.

Location: Vote Solar's offices in San Francisco
Salary DOE, excellent benefits

43. Asia-Pacific Partnership for Clean Development: India

We are seeking individuals to assist in implementing projects in India under the Asia-Pacific Partnership for Clean Development and Climate (APP). Can you please circulate this announcement (below, and attached) to qualified candidates? Thank you.

Outstanding individuals are being sought to support a donor-funded clean energy program which will be implemented over the next two years in India.

A COUNTRY MANAGER will lead the development of program activities and manage finances. They will be advised by specialists in energy efficient lighting (CFLs) and cleaner coal technologies to deliver trainings and provide technical assistance; (2) network with public and private stakeholders; (3) coordinate the participation of individuals for regional exchanges and events; (4) monitor and evaluate the program activities; and (5) prepare reports.

A COUNTRY ASSISTANT will provide logistical and administrative support to the Country Manager for program implementation.

SHORT-TERM CONSULTANTS, with expertise in energy efficient lighting (CFLs), cleaner coal technologies and clean energy finance, are sought to: (1) connect the program to research institutions, national and state governments, and other stakeholders; (2) link the program with multi-lateral donors, development banks and public and state financial institutes; (3) initiate dialogue on technology issues and procurement, and policy initiatives; and (4) support in-country activities (e.g. preparing reports, conducting trainings, organizing events).

Please email a cover letter and resume by October 21, 2007 to jobs@cleanenergyasia.net.

Peter du Pont, Ph.D.
USAID Contractor
Chief of Party, ECO Asia Clean Development & Climate Program, THAILAND

Tel: +66 2 615 5104-6 (press 1)
US Tel: +1 (202) 657 4942 (24-hour voice mail)
Email: peter@cleanenergyasia.net
Web: usaid.eco-asia.org/programs/cdcp/

-----Inline Attachment Follows-----

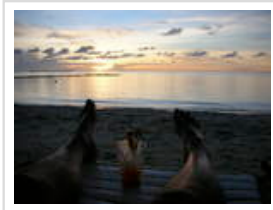
--++**==--++**==--++**==--++**==--++**==--++**==--++**==

energyfolks mailing list

energyfolks@lists.stanford.edu

<https://mailman.stanford.edu/mailman/listinfo/energyfolks>

1 Image | [View Slideshow](#) | [Download Selected](#) | [Download All](#)



 [mai tai .JPG](#)
(245KB)