From: Gil Masters (gmasters@stanford.edu)
To: energyfolks@mailman.stanford.edu
Date: Tuesday, October 14, 2008 5:00:57 PM
Subject: Seminars, Reports, Jobs

... I'll be out of the area (Micronesia) for a few weeks ... so here's a catch-up before I take off
gil

STANFORD AREA

1. Energy Seminar: William McDonough, Weds Oct 15 (NEW LOCATION)
2. Forum: Advanced Cleantech R&D from Israel, Nov 10, 5:30-8:30 pm
3. Energy Advising Office Hours with Cody
4. Student help wanted for a solar powered drip irrigation demonstration
5. Alliance for Climate Protection: Undergraduate Fellowships, Jan 2009
6. Renewable Energy for California: Challenges and Solutions: SF Oct 21 5:30 pm

GENERAL

1. LBNL Renewable Energy Reports Available
2. Scientific American Special issue: Earth 3.0: Energy vs Water
3. H.R. 1424: 8-yr Solar Tax Credit Extension
4. 7 U.S. States & 4 Canadian Provinces, Including California, Launch Western Climate Initiative
5. China's Dirtiest Air: Indoors

JOBS

1. Three jobs at MMA Renewables Ventures, SF
2. Three jobs at Hum Cycles (electric motorcycles), SF
3. Assistant Professor, Energy and Resources Group, UC Berkeley Energy Systems Analysis
4. Multiple Positions at Navigant Consulting, SF, DC, MA, PA, Houston, Sacto, Chi
5. Design Engineer at Distributed World Power, Pasadena, CA
6. Energy Engineer: Bright Power, Inc. NY
7. Assistant Professor of Public Policy Energy/Environment, U North Carolina Chapel Hill
8. Humboldt University, Berlin: PhDs and Post Docs for Hyderabad, India climate and energy study

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STANFORD AREA

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1. Energy Seminar: William McDonough, Weds Oct 15 (NEW LOCATION)

NOTE CHANGED LOCATION AND TIME FOR ENERGY SEMINAR THIS WEEK:

Wednesday, October 15, 4:30-5:30, Cubberley Auditorium, 485 Lasuen Mall (map: http://campus-

map.stanford.edu/index.cfm?ID=03-300)
William McDonough
William McDonough + Partners, author of *Cradle to Cradle*
A collaboration of Entrepreneurial Thought Leaders and the Energy Seminar

The following Seminars will be at the usual time and location:
Wednesdays 4:15 to 5:15 p.m. Building 420 Room 40

- October 22
  Professor Roland Horne, Thomas Davies Barrow Professor in the School of Earth Sciences, Stanford University
  The Future of Oil
- October 29 * (Followed by an Energy Social in Y2E2)
  Professor Michael McGehee, Director of Center for Advanced Molecular Photovoltaics, Material Science and Engineering; and Professor Alan Sellinger, Material Science and Engineering, Stanford University
  Center for Advanced Molecular Photovoltaics, (CAMP)
- November 05
  Professor Stephen Pacala, Professor of Biology and Director of the Princeton Environmental Institute, Princeton University
  Equitable Solutions of the Carbon and Climate Problem
- November 12
  John O'Donnell, Energy Consultant
  Solar Thermal Power

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2. Forum: Advanced Cleantech R&D from Israel, Nov 10, 5:30-8:30 pm

Energy Crossroads is partnering with The California Israel Chamber of Commerce (CiCC) to bring to campus an Academic Forum on the evening of November 10th, featuring 3 professors from the top universities in Israel, moderated by Stanford's own Sally Benson.

Join cleantech industry leaders, companies, investors, entrepreneurs and policymakers and learn about leading edge and commercializable scientific research in renewable energy and water
technology from Israel, home to over 400 cleantech companies.

Monday November 10, 5:30-8:30pm
Bechtel Conference Center, Encina Hall, 616 Serra St. Stanford, California (directions)
$30 fee, collected at the door, no RSVP required
Free to Stanford faculty, students, staff w/valid ID
Hors d' oeuvres served

Moderated by: Professor Sally Benson
Executive Director, Global Climate & Energy Project (GCEP) and Professor in the Department of Energy Resources Engineering, Stanford University

Speakers:

Professor Yohay Carmel
Head Researcher, Technion Faculty of Civil & Environmental Engineering
Chair of the Israel Society of Ecology and Environmental Science
Scientific Director, The Ecological Garden of The Technion

Professor Eilon Adar
Director, Zuckerberg Institute for Water Research
Blaustein Institutes for Desert Research , Ben Gurion University

Professor Abraham Kribus
School of Mechanical Engineering Tel Aviv University
Chair of the International Solar Energy Society in Israel

To also register for the CICC Israel Cleantech Company Showcase
on Tuesday, November 11, 2008 please click here.

For more info: www.cicc-cleantech.com

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3. Energy Advising Office Hours with Cody

Cody Taylor (Earth Systems '04, Engineering '05) will be holding Energy Advising office hours for anyone who wants to discuss energy classes, majors, research, internships, jobs, etc. Cody works in Energy & Climate Consulting in the bay area and has provided Energy Advising to Stanford students for several years.

Office hours this quarter will be:
Thursday, 10/16 (this week!)
Thursday, 10/30
Thursday, 11/13

all from 10am-4pm in Y2E2 room 393. To make an appointment, contact
Cody codytaylor@stanford.edu or drop in.

Cody Taylor
cody.taylor@gmail.com

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4. Student help wanted for a solar powered drip irrigation demonstration

Hello: Jen Burney is working on a solar-powered drip irrigation project in Benin (seehttp://solarbenin.group.stanford.edu) in conjunction with the Solar Electric Light Fund (http://www.self.org). This project was just chosen as a Tech Museum Award Laureate (http://www.techawards.org). The Tech Awards selection and gala is the week of November 10th, and we would like to make a working model of our system to have on display for all events. Are you interested in building a miniature version of a "Solar Market Garden" with me? I could use 15 hours of help -- design and construction -- between now and November 10th. You can get a unit of credit for this, learn about a very cool application of the systems you studied last quarter, and have a lot of fun. If you are interested in this, please contact me (Jen Burney, postdoc in the Food Security and the Environment group at Stanford) at burney@stanford.edu. Thanks!

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5. Alliance for Climate Protection: Undergraduate Fellowships, Jan 2009

http://acp.3cdn.net/39ae231b541dd93805_e4m6bn7ny.pdf

The Alliance for Climate Protection is offering fellowships to undergrads starting in January 2009. This fellowship will allow you to work directly for the Alliance for Climate Protection and their WE campaign. It's a great way to get some experience and a foot in the door at one of the best-funded,most influential non-profits around

The Alliance for Climate Protection is offering undergraduate students a unique educational opportunity working at the forefront of the climate change movement. Apply your education and interests through practical experience, and learn firsthand about the work that needs to be done to inspire social activism and fight the climate crisis!

Founded in 2006 by Former Vice President Al Gore, the Alliance for Climate Protection is a non-partisan organization committed to igniting public action to help solve the climate crisis. In early April, the Alliance launched the We Campaign, a highly visible three-year effort to help make climate change a top issue for American voters. The We Campaign is unprecedented in both scale and approach. For more information, visit: www.wecansolveit.org.

Full-time fellowships are available in our Menlo Park office. Fellows will be primarily working in one of the following areas:

> Social Networking. Build the climate change presence on social networking sites, assist in the dispersion of online media material, develop new mechanisms for viral marketing, and help with other online efforts as needed. Experience and interest with social marketing is required.
>
> Grassroots. Support events where We has a presence, including working with sponsors and coordinating materials with volunteers. Create and distribute compelling materials to assist members of the We Campaign who are hosting house parties. Work with We campus chapters to develop events at universities nationwide. Excellent communications skills, creativity and event/party planning experience are a plus.
>
> Partnerships & Development. Coordinate requests for partnerships and develop a plan for annual review of our corporate partnerships. Help write proposals and other fundraising documents, and manage our relationship with large donors. Attention to detail is a must.
>
> Marketing & Communications. Field, screen, and track requests for media participation and public speaking appearances. Assist with media research activities and tracking earned and paid media. Knowledge of marketing or corporate social responsibility is a plus.
>
> Current Affairs. Develop a calendar of climate events that the Alliance should be a part of and brief staff weekly on findings. Create research memos and slides on current U.S. energy/climate policy developments, clean energy investments, market research, polling, etc. Excellent research skills are a must.

Fellows will also gain a breadth of experience working on collaborative and independent projects across sectors. In addition, they will have the opportunity to draft short articles focused on climate change issues and climate change activism.

Applicants with a variety of experience levels and interests are encouraged to apply. All positions require excellent written and oral communications skills, good computer and search skills, strong attention to detail, ability to juggle multiple deadlines and assignments, and ability to work as part of a team.

To apply: Email your resume, a one-page cover letter, and two references to: fellowships@climateprotect.org.

Your cover letter must state how you can help the Alliance and what you hope to learn during the fellowship. It should specify which fellowship program areas are of greatest interest to you and why, as well as your availability with start and end dates.

Include contact information for two references. At least one must be a professor or advisor at your university or college.

Your resume should indicate your GPA and classes relevant to the Fellows program.

Applicants may also send one short (2-page) writing sample

- Applications must be received by December 1, 2008
- Fellowships will be for a period of ten or twelve weeks and can begin on January 5, 2009
- Fellows will receive a $3,000 stipend for a twelve-week fellowship, or a $2,500 stipend for a ten-week fellowship.
- Fellowships are open to all undergraduate students who have completed two or more years of college.

Fellows will work in our Menlo Park, CA headquarters, located a short walk from the Menlo Park Caltrain station and other public transportation.

- We do not provide housing or housing assistance to Fellows

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6. Renewable Energy for California: Challenges and Solutions: SF Oct 21 5:30 pm

10/21/08
Renewable Energy for California: Challenges and Solutions
http://tickets.commonwealthclub.org/auto_choose_ga.asp?area=2

Paul Douglas, Renewables Portfolio Standard Program Manager, California Public Utilities Commission

Roy Kuga, Vice President of Energy Supply, PG&E
Diane Fellman, Director of California Regulatory Affairs, FPL Energy
Carl Zichella, Regional Director for California, Sierra Club
Cliff Chen, Energy Analyst, Union of Concerned Scientists - Moderator

How fast should electric power companies shape up their act? Al Gore has challenged the nation to produce 100 percent of its electricity from renewable energy and truly clean carbon-free sources within 10 years, and the California legislature has directed the state's investor-owned utilities to generate 20 percent of their electricity from renewable energy by 2010. So, how are we doing so far? Only a small proportion of the utilities' contracts for clean energy have resulted in visible construction. What is causing the delay, and what are the solutions?

MLF: Environment & Natural Resources
Location: Club Office, San Francisco
Time: 5:30 p.m. reception, 6 p.m. program
Cost: $8 members, $15 non-members
Program Organizer: Jaclyn Marks
Also know: Part of the ClimateOne Series

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GENERAL ENERGY STUFF
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1. LBNL Renewable Energy Reports Available

A number of renewable energy journal articles, book chapters, and reports authored (but not previously distributed) by Berkeley Lab staff have been published in the last few months. Some of these may be of interest to you, and are therefore listed below. Because a number of these papers are available for purchase, we cannot distribute them in a bulk email. However, if you would like a copy of the journal articles, just let us know. As you will see from the list below, the published documents range from analyses of wind and solar markets, to renewable energy policy assessments.

- "Analytical Methods for Energy Diversity & Security." Morgan Bazilian and Fabien Roques (eds). Elsevier. This book, a tribute to the late Shimon Awerbuch, provides analysis and insights from leading authorities on methods to value resource diversity. Berkeley Lab's Mark Bolinger and Ryan Wiser contributed a chapter to the book, summarizing and updating Berkeley Lab's previous work on the benefits of renewable energy in reducing exposure to natural gas price risks. The book is, or soon will be, available through Elsevier at: http://www.elsevierdirect.com, or from other book sellers.

- "Deploying Renewables: Principles for Effective Policies." Paris, France: International Energy Agency. Berkeley Lab's Ryan Wiser contributed to this IEA report, which comprehensively examines data and information relating to renewable energy markets and policies over the period 2000-2005. This assessment aims to measure the effectiveness and efficiency of policies for promoting renewable energy across a broad range of countries, and in the electricity, heating, and transportation sectors. The report's press release and link for purchase is available at:http://www.iea.org/Textbase/press/pressdetail.asp?PRESS_REL_ID=271

- “A Scoping-Level Study of the Economics of Wind-Project Repowering Decisions in California.” Sacramento, California: California Energy Commission. This report, authored by Ryan Wiser, Ric O’Connell, and Mark Bolinger, provides a scoping-level analysis of the economic attractiveness of replacing aging wind turbines with modern wind technology (i.e., project repowering) to project owners. The study finds that aging wind facilities may often be more profitable, in the near term, in continued operations than they would be if they were repowered. To encourage repowering, it may therefore be necessary to provide explicit financial incentives to do so. This report is available at: http://www.energy.ca.gov/2008publications/CEC-300-2008-004/CEC-300-2008-004.PDF

- “Surpassing Expectations: State of the U.S. Wind Power Market.” Renewable Energy World, 11 (4): 121-133. This article (authored by Mark Bolinger and Ryan Wiser) provides an overview of recent installation and cost trends in the U.S. wind power industry. The article is available online at http://www.renewableenergyworld.com/rea/news/story?id=53498 and is based on a previously released DOE report, which is available at http://eetd.lbl.gov/EA/EMP/reports/lbnl-275e.pdf

- “Managing Carbon Regulatory Risk in Utility Resource Planning: Current Practices in the Western United States.” Energy Policy, 36 (9): 3300-3311. This article (authored by Galen Barbose, Ryan Wiser, Amol Phadke, and Chuck Goldman) summarizes current practices among Western electric utilities in addressing the regulatory risk of future carbon regulation. It builds off of a previously distributed LBNL report, which is available at: http://eetd.lbl.gov/EA/EMP/reports/lbnl-44e.pdf

- “Using the Federal Production Tax Credit to Build a Durable Market for Wind Power in the United States.” The Electricity Journal, 20 (9): 77-88. This article (authored by Ryan Wiser, Mark Bolinger, and Galen Barbose) evaluates the impacts and effectiveness of the PTC as a policy tool to promote wind power in the United States, and provides an assessment of the potential benefits of a longer-term extension of the credit. A pre-print of this article is available at: http://eetd.lbl.gov/EA/EMP/reports/63583.pdf

- “A Review of Wind Project Financing Structures in the USA.” Wind Energy (in press, but available online). This article (authored by Mark Bolinger, John Harper, and Matthew Karcher) describes the primary financing structures in common use for wind project development in the United States. It is based on a previously released LBNL report, which is available at:http://eetd.lbl.gov/EA/EMP/reports/63434.pdf

- “The Impact of Retail Rate Structures on the Economics of Commercial Photovoltaic Systems in California.” Energy Policy, 36 (9): 3266-3277. This article (authored by Andrew Mills, Ryan Wiser, Galen Barbose, and William Golove) summarizes how different retail rate structures in use in California can impact the economics of commercial photovoltaic systems. It builds off of a previously released LBNL report, which is available at: http://eetd.lbl.gov/EA/EMP/reports/63019.pdf

- “Weighing the Costs and Benefits of State Renewables Portfolio Standards in the United States: A Comparative Analysis of State-Level Policy Impact Projections.” Renewable and Sustainable Energy Reviews (in press, but available online). This article (authored by Cliff Chen, Andrew Mills, Ryan Wiser, and Mark Bolinger) summarizes results from numerous modeling studies that have evaluated the impacts of various state-level renewables portfolio standards (RPS). It builds off of a previously released LBNL report, which is available at:http://eetd.lbl.gov/EA/EMP/reports/61580.pdf

Please let us know if you would like electronic copies of any of the journal articles not otherwise available through a web-link above.

Ryan Wiser, Mark Bolinger, Galen Barbose, and Andrew Mills
Lawrence Berkeley National Laboratory
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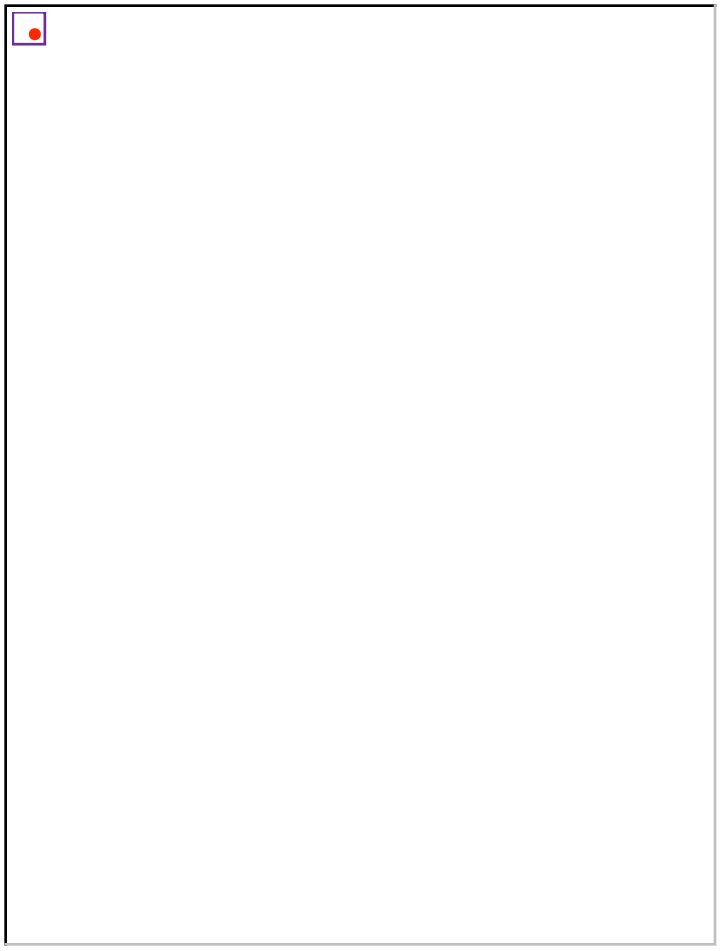
2. Scientific American Special issue: Earth 3.0: Energy vs Water

Great issue, which you can download from the web: http://www.sciamearth3.com/nrdc2/



For Security, Get Off Oil
Former CIA director R. James Woolsey says oil dependence is a national threat. Read about it in Scientific American's new magazine, Earth 3.0.

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3. H.R. 1424: 8-yr Solar Tax Credit Extension

Solar Electric Power Association:

Statement on Historic 8-Year Solar Tax Credit Extension

Removal of Utility Prohibition to Have Major Impact on Solar Market Development

WASHINGTON, D.C. – The passage of H.R. 1424, the Emergency Economic Stabilization Act of 2008, provides critical news for the solar industry at large, but also for regulated electric utilities looking to diversify their energy mix with solar electric generation. In addition to extending the federal solar investment tax credit (ITC) for 8 years, the legislation includes the removal of a prohibition that previously prevented electric utilities from taking advantage of the credit.

Based on announcements and discussions with utility executives this year, the Solar Electric Power Association (SEPA) predicts that utilities will quickly become the largest and one of the most important customers for the solar industry, expanding solar markets beyond analysts' expectations. Access to the federal tax credit will expedite the timeframe and scale to which this happens.

"U.S. electric utilities' engagement with grid-connected solar electricity has increased significantly in 2008, with major photovoltaic and concentrating solar thermal project announcements totaling more than 5,000 megawatts," said Julia Hamm, SEPA executive director. "Without the ability to take direct advantage of the ITC, the only viable financial option was to have these plants be owned and operated by independent power producers who then in turn sell the electricity to the utility. The change to the tax credit facilitates utility ownership as another option, which will result in additional projects and innovations."

With the policy change, utilities that have a tax appetite and an interest in owning solar generation projects now have an added incentive to diversify and clean their energy supply with the addition of solar power.

"This is a very positive development for the utility industry as it will go a long way to putting solar power within reach of many more Americans," said Jim Rogers, chairman, president and CEO of Duke Energy, a SEPA member. "It is exactly what we need as we explore investing $100 million to install, operate, maintain and dispatch solar panels on our customers' rooftops in North Carolina as a viable option to build a bridge to a low-carbon future."

"The extension of the tax credit also significantly increases the likelihood that recently announced solar projects will come to fruition," says Hamm. For example, the largest planned photovoltaic projects in history – one for 550 MW and the other for 250 MW – announced as long term contracts with private solar companies in August by Pacific Gas and Electric Company, were both contingent upon the extension of the federal investment tax credit.

The full list of the solar investment tax credit provisions in H.R. 1424 include:

- Extension for 8 years of the 30-percent tax credit for both residential and commercial solar installations
- Elimination of the $2,000 monetary cap for residential solar electric installations, creating a true 30-percent tax credit (effective for property placed in service after December 31, 2008)
- Elimination of the prohibition on utilities from benefiting from the credit
- Allowance for Alternative Minimum Tax (AMT) filers, both businesses and

individuals, to take the credit

· Authorization of $800 million for clean energy bonds for renewable energy generating facilities, including solar

H.R. 1424 Bill Summary:
http://seia.org/galleries/pdf/HR_1424_Solar_Memo.pdf
H.R. 1424 Full Bill Text:
http://www.solarelectricpower.org/docs/Fin_Stab_Bill_Text.pdf

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4. 7 U.S. States & 4 Canadian Provinces, Including California, Launch Western Climate Initiative

An alliance of seven Western states and four Canadian provinces recently released a blueprint to cut greenhouse gas (GHG) emissions by 15% below 2005 levels by 2020 across all sectors of the economy. The participating American states are California, Arizona, Montana, New Mexico, Oregon, Utah and Washington; the member Canadian provinces are British Columbia, Manitoba, Ontario and Quebec. Developed by theWestern Climate Initiative (WCI), the proposal puts in place a mandatory cap on emissions(Power Plug, 6/17/08) that would diminish each year. The draft plan will take affect in 2012. Unlike the final plan of the Regional Greenhouse Gas Initiative, in which 10 Northeastern and Mid-Atlantic states will auction off more than 90% of their pollution allowances, with the first auction held last week, the WCI plan requires only 10% of allowances be sold at auction, with the rest given away. The allowances may be traded in a secondary market, which effectively sets a price for emissions.

Western Climate Initiative: (Blue: Partner; Yellow: Observer) (Image: WCI)

From: eNewswire@fypower.org

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5. China's Dirtiest Air: Indoors

By John M. Glionna
Los Angeles Times

BEIJING — China is home already to 16 of the planet's 20 most heavily polluted cities — a noxious byproduct of its double-digit economic growth. Now researchers have worse news for the nation's beleaguered lower classes: The air inside their homes is as much as 10 times worse than the prevailing gloom outside.

Seven of 10 homes still burn suffocating coal and wood for heat, and half of Chinese men smoke — a toxic combination of indoor pollution that raises dire questions about the fate of this industrial giant's long-term public health.

Over the next quarter-century, 83 million Chinese will die from lung cancer and respiratory ailments without a reduction of cigarette smoking and indoor fuel-burning, a new study by Harvard's School of Public Health warns.

http://seattletimes.nwsource.com/html/nationworld/2008263543_chinapollution14.html

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JOBS JOBS JOBS

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1. Three jobs at MMA Renewables Ventures, SF

(1) Asset Development Manager
http://www.munimae.jobs/opportunities/mrv-asset_development_manager.htm

The Asset Development Manager is responsible for developing technical packages to support Business Development focused on distributed generation photovoltaic systems. This position will be responsible to establish initial design criteria and set customer expectations. This position will be responsible for site visits and technical liaison with customers during the development phase.

This person will be expected to travel to sites throughout the United States regularly. The role will also work to assist in the development of large utility scale photovoltaic plants as needed. The Asset Development Manager will work closely with Asset Management team to develop standardized design criteria, engineering practices, and construction methods to ensure ease of operability. The ideal candidate will have strong attention to detail and be able to work in a fast pace environment.

(2) Asset Operations Manager
http://www.munimae.jobs/opportunities/mrv-asset_operations_manager.htm
he Asset Operations Manager (AOM) is responsible for managing all the technical aspects of a photovoltaic assets portfolio. The systems must be optimally operated to maximize life expectancy while minimizing the operating expenses. The AOM will monitor the performance of the systems daily to ensure trouble free operation. The AOM will be the main point of contact for customers during operations. These systems are located throughout the United States . The AOM will work closely with the Asset Management team to develop standardized design criteria, engineering practices, and construction methods to improve the ease of operability of future projects. The ideal candidate will have strong attention to detail and be able to work in a fast-paced environment.

(3) Solar Design Manager
http://www.munimae.jobs/opportunities/mrv-solar_design_manager.htm
The Solar Design Manager is responsible for reviewing packages for the construction of distributed generation photovoltaic systems produced by a variety of integrator partners. The systems must be designed to maximize life expectancy while minimizing the total installed costs. These systems must be flexible to meet the requirements throughout the United States .

Contact Information: Tracy Houghton
Email: tracy.houghton@munimae.com

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2. Three jobs at Hum Cycles (electric motorcycles), SF

Hum Cycles, Inc. is building the first truly high-performance electric motorcycle: one that is superior in performance, distinctive in style, and sustainable in design. We are seeking candidates to fill several current openings: (see job descriptions below)

1) Power Electrical Engineer

The candidate should possess relevant experience in battery circuit design, low speed differential signaling, and high current power applications. Experience in thermal management of power electrical components is desired.

2) Embedded Software Engineer

We're looking for someone who can really get into low-level embedded systems work: Things like assembly language, C, and Real Time OSes. This person will lead the development of the brains of the bike, the charging control system, data acquisition system, and the battery management software.

3) Sr. Mechanical Engineer

The ideal candidate would have relevant experience designing machined, cast, welded, and molded parts for volume production, as well as rapid prototyping and hands-on engineering experience.

The company offices are located in downtown San Francisco. The company is an early stage venture which has already received seed funding.

We are building our engineering team to complete the final stages of prototype development. This is an excellent opportunity for individuals looking to get in on the ground floor of a new clean transportation company working to develop mainstream electric vehicles for the consumer market.

Candidates must be excited to work in a small, fast-moving startup environment. Successful candidates must have completed their degree program and must demonstrate the following:

* Broad set of skills including knowledge outside their specific technical discipline

* Ability to work in inter-disciplinary teams

* Individual initiative and problem-solving ability

* Hands-on rapid prototyping and testing experience

* Strong written and oral communication skills

* Interest in environmental sustainability and the future of transportation.

* Motorcycle riders/enthusiasts and EV experience are a plus

Interested Candidates should e-mail **careers@humcycles.com** for further details about the company and application instructions.

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3. Assistant Professor, Energy and Resources Group, UC BerkeleyEnergy Systems Analysis

The Energy and Resources Group seeks an interdisciplinary scholar with a primary emphasis on energy systems analysis. We seek a scholar who has the analytic skills and interests to explore the tradeoffs between energy productions options, contributions to and reductions of greenhouse gas emissions, water and land-use, energy security, and social and economic costs of alternative energy transition paths in developed and rapidly developing economies. Strong technical training in modeling, energy engineering, environmental science, and decision analysis are critical. Professional and policy experience are highly desirable. The successful candidate will teach undergraduate and graduate courses on energy systems analysis, participate in the joint teaching of interdisciplinary courses at the upper division and graduate level, and advise graduate students on research in this and related areas.

The Energy and Resources Group (http://erg.berkeley.edu) is an interdisciplinary program with a distinguished record in research, education, and service in the technological, social, and ecological dimensions of energy and the environment. ERG has 65 graduate students, with diverse prior training and evolving interests. ERG faculty includes five core members, a

chairman, two adjunct faculty and about 100 affiliated faculty from throughout the University.

Applications must be postmarked no later than December 15, 2008, and should include: 1) CV, 2) description of research and teaching interests, 3) up to two publications or reports, and 4) three letters of recommendation. Apply to ERG Search Committee Chair, 310 Barrows Hall, University of California, Berkeley CA 94720-3050 USA. The University of California, Berkeley is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to excellence through diversity. Please refer potential reviewers to the UC Berkeley Statement of Confidentiality found at: http://apo.chance.berkeley.edu/evalltr.html.

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4. Multiple Positions at Navigant Consulting, SF, DC, MA, PA, Houston, Sacto, Chi

1. Renewables Consultant: For over 25 years, Navigant Consulting, Inc.'s (NYSE:NCI) Renewable Energy group has assisted corporations, investors, governments and other energy industry stakeholders in meeting their near- and long-term objectives related to renewable energy. The Renewable Energy group is looking to hire a Consultant or Senior Consultant to join its growing San Francisco team. The Consultant/Senior Consultant will work closely with a core team of mid-career professionals at the intersection of business, technology and public policy in the quickly expanding field of renewable energy. More information on the Renewable Energy group can be found at: http://www.navigantconsulting.com/industries/energy/renewable_energy/

Typical engagements for NCI's Renewables Group include:
· Assessing renewable energy technologies and analyzing technology trends
· Modeling the cost and performance of renewable energy technologies
· Identifying U.S. and international market opportunities
· Analyzing business models and identifying ways to enhance them
· Developing technology and business strategies for leading utilities, energy companies, and equipment suppliers
· Developing policy and R&D strategies for federal, state and local government
· Building business plans (including new technology deployment and commercialization strategies)

Requirements
· 2-3 years of professional work experience in:
o the renewable energy industry (wind or biomass a plus)
o engineering or energy consulting
o a utility or other energy company
o the financial industry
· Bachelors degree in an Engineering, or other technical discipline (e.g., Mathematics, Physics, Chemistry)
· Master's degree in Engineering or Policy preferred
Please contact Vikash Shah by October 31st: vikash.shah@navigantconsulting.com
Or submit your resume on line at: https://navigantconsulting.recruitmax.com/MAIN/careerportal/Job_Profile.cfm?szOrderID=1646&szReturnToSearch=1&szWordsToHighlight=

2) Technology Strategy and Management Consultant (Energy Practice)

Location: Burlington, MA, Pittsburgh, PA, San Francisco, CA, and Washington, DC

Position Summary: The position, based in Burlington, MA, Pittsburgh, PA, San Francisco, CA, and Washington, DC, is for a Consultant in the Technology Strategy and Management (TSM) group within NCI's Energy Practice. This is an entry level position for individuals with 0 - 2 years of post graduation professional experience. The TSM Consultant will be part of a team that assists leading energy-related organizations (including utilities, energy companies, government organizations and equipment suppliers) create innovation and exploit technology across the full spectrum of their activities, from setting strategy to developing and deploying cutting-edge products and applications.

The Technology Strategy and Management Consultant will assist the team by:
- Assessing technologies and analyzing technology trends
- Modeling the cost and performance of advanced technologies
- Developing technology strategies for utilities, government, energy companies, and equipment suppliers
- Supporting the design and implementation of technology management processes (including portfolio management, technology sourcing, and R&D management)
- Building new technology deployment and commercialization strategies
- Communicating solutions and new strategies to clients through technical reports and presentations

Basic Qualifications:
- BS or MS degree in an engineering or science discipline
- Strong interest in one or more of the following areas: energy efficiency, renewable energy, advanced technologies, residential and commercial building energy use, distributed generation, electricity transmission and distribution, and advanced transportation solutions.
- Outstanding analytical and problem-solving skills
- Strong verbal and written communication skills
- High degree of self-confidence and determination
- Highly developed organization and management skills
- Ability to manage multiple time-sensitive priorities without diminished effectiveness
- Demonstrated proficiency with spreadsheets, databases, word processing, and slide presentation software
- Experience developing and using analytical models and simulations
- Ability to travel and work overtime hours as needed

Please submit your resume by 10/31/08 to our campus job posting or directly to www.navigantconsulting.com/careers for Burlington, MA (req. 1627), for Pittsburgh, PA (req. 1636), for Washington, DC (req. 1637), and for San Francisco, CA (req. 1638). If you have no geographic preference, please only submit your resume to one of the postings.

3) Energy Practice Consultants

Location: Sacramento, CA; Houston, TX; Chicago, IL; Washington, DC

Position Summary: Several positions available within the Litigation, Regulatory and Markets (LRM) and Operations Advisory groups within NCI's Energy Practice. These groups provide services primarily within or related to the electric power and natural gas industries.

Essential Duties and Responsibilities:
The individual working in this position will support senior consulting staff on client-related projects within the electric power and natural gas industries. The ideal candidate will use their expertise in data manipulation, spreadsheet modeling, economic/financial research, and problem solving to support these assignments in an organized manner. The candidate's ability to communicate, both orally and in writing, the results of their work will be directly related to their success in this position. The selected candidate will be very comfortable seeking guidance on issues, participating in virtual teams, and working in a project environment.

Basic Qualifications:
- Minimum of a BS/BA degree, preferably in Engineering, Mathematics, Economics, or similar quantitative discipline. Masters degree or MBA encouraged.
- Relevant work experience is desired, but not required.
- Experience in, or knowledge of, the energy industry, particularly electric power or natural gas, is strongly preferred.
- Strong MS Excel, Access, and PowerPoint capabilities, with the ability to develop spreadsheet models.
- Strong communication and writing skills are required.
- Outstanding analytical and problem-solving skills
- Personal drive to perform to high standards of work quality and organization.
- Ability to manage multiple time-sensitive priorities without diminished effectiveness
- Ability to travel and work overtime hours as needed

Please submit your resume by 10/31/08 directly to www.navigantconsulting.com/careers for Chicago, IL (req. 1626), for Washington DC (req. 1639), for Sacramento, CA (req. 1640), and for Houston, TX (req. 1641). If you have no geographic preference, please only submit your resume to one of the postings.

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5. Design Engineer at Distributed World Power, Pasadena, CA

Half of all people alive today do not have adequate access to inexpensive electricity. One in four does not have any access at all. The only other energy options available, like kerosene and wood, are inefficient, unhealthy, environmentally unfriendly, scarce and, above all, increasingly expensive. We exist to change that.

Our mission is to build a great company that enables lasting prosperity through innovative energy solutions. We aim to become the leader in affordable energy generation products designed specifically for off-grid use in emerging markets. Distributed World Power is located in Pasadena and is part of the Idealab family of start-up companies (www.idealab.com).

As a Design Engineer at Distributed World Power
· You are filled with a burning desire to make a scalable, positive difference in the world
· You are extremely versatile, self-motivated, thrive on challenges, and are able to excel in a fast-paced, often unstructured environment.
· You enjoy the entire process of creating new products, from brainstorming concepts to detailed design to getting-your-hands-dirty prototyping and testing
· You are willing, able and in-fact thrilled by the idea of traveling to remote villages in developing countries.

· You are lighthearted, personable and have a humble respect for the opportunity to serve customers in developing markets
· You are excited about becoming a core member of a young company, and ready to take an active role in helping it grow into an international success.

Core responsibilities of this position will include

· Technology research for existing and future solutions
· Part/Component design and drafting
· Fabrication of prototypes (machining, rapid prototyping machines, etc)
· Testing [in-house; simulated (FEA); and in-field (travel may be required)]

Your minimum level of experience includes:
· University degree in Mechanical Engineering, Product Design, or similar
· Proficient with SolidWorks and Microsoft Office
· A long history of seeing problems and engineering clever solutions, and quite simply just "making stuff" (using any and all types of tools and fabrication techniques.) Optional additional experience (that may just knock our socks off!)

· 1-5 years experience in Product Design and Development
· Design-for-manufacturing experience
· Exceptionally strong communication skills (both written and verbal)
· Proficiency with Photoshop and/or other photo & video editing software
· Prior travel to rural South Asia, Africa, and/or South America
· Familiarity with Finite Element Analysis (ANSYS, CosmosWorks, etc)
· Interest and/or experience with any of the following: Solar, Wind Power, Generators, Turbine Engines, Fuel Cells, Bio-fuels…

To apply for this position, please send a cover letter with your resume to:
james@dwpower.com

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6. Energy Engineer: Bright Power, Inc. NY

For Growing Energy Efficiency and Renewable Energy Services company

Bright Power, Inc. is seeking an energy engineer to work on challenging industrial, commercial and multifamily energy efficiency and renewable energy projects primarily in the New Construction sector. The candidate should be very self motivated, enjoy working with and designing systems, adapt quickly to new technologies, and get a kick out of finding energy savings opportunities in the world around them. Interested candidates should send resume and cover letter to jobs@brightpower.biz.

Preference will be given to candidates with:

· Renewable Energy Experience (esp. solar PV, solar thermal, CSP, wind)
· Architectural or Design experience on large commercial, industrial, or multi-family buildings
· LEED and/or Certified Energy Manager Certification
· CAD, eQuest, TREAT experience
· Construction Management (renewable energy sector)

· Active participation in professional industry associations
· Published articles
· Teaching experience
· Strong academic profile

About Bright Power:

· Founded in 2004. Office located in downtown Manhattan.

· Heating Systems (steam, hydronic, forced air)
· Cooling Systems (AC, commercial refrigeration)
· Lighting Systems (including motion sensors and other controls)
· Electrical Systems (motors, industrial machinery, controls)
· Cogeneration
· Renewable Energy (esp. solar PV, solar thermal, CSP, wind)
· Controls and Energy Management Systems
· Remote Monitoring
Energy Modeling (eQuest, TREAT, Energy Plus, TRNSYS)

Andrew McNamara, CEM, LEED
VP of New Construction Division
Bright Power, Inc.
tel: 212.803.5868

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7. Assistant Professor of Public Policy Energy/Environment, U North Carolina Chapel Hill

The Department of Public Policy at the University of North Carolina at Chapel Hill invites applications for a tenure-track faculty position at the rank of assistant professor beginning July 1, 2009, in the field of energy and environmental policy.

We seek candidates with a background in public policy, economics, or related social sciences or interdisciplinary programs, strong quantitative skills, and a promising research record in the field of energy and environmental policy. We particularly welcome applications from candidates with research interests in interdisciplinary policy questions involving renewable energy, energy market restructuring, climate change, and/or related aspects of technology and economic development policy. All candidates must demonstrate a commitment to both undergraduate and doctoral teaching, and supervise Ph.D. dissertations and undergraduate honors theses. The position also will have some teaching responsibilities with UNC's Curriculum for the Environment and Ecology.

UNC-Chapel Hill offers strong opportunities for interdisciplinary research and teaching on energy and environmental policy. The Department of Public Policy is a unit of the College of Arts and Sciences which confers A.B. and Ph.D. degrees and works closely with other departments in the College as well as with UNC's professional schools. It has close ties with other environment- and energy-related programs at UNC, including the campus-wide Institute for the Environment, the Department of Environmental Sciences and Engineering in the School of Public Health, the Kenan-Flagler School of Business, and the Department of City and Regional Planning, among others. For more information about the department, see http://publicpolicy.unc.edu/ .

Please apply online at http://hr.unc.edu/jobseekers/ and use Keyword Search: 1001073 (Position Recruitment ID). (Be sure to note that use of this system requires first setting up a profile, and then actually applying to the position identified; international applicants should use zip code 99999). Review will begin October 31, 2008 and will continue until the position is filled.

REPLY TO: pete_andrews@unc.edu <mailto:pete_andrews@unc.edu>

Richard N. L. Andrews
Thomas Willis Lambeth Distinguished Professor of Public Policy
Chair, Department of Public Policy
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8. Humboldt University, Berlin: PhDs and Post Docs for Hyderabad, India climate and energy study

Reply-To: felix@creutzig.de

Tthe division of Ressource Economics at Humboldt University, Berlin is calling for applicants for one post doc and a couple of PhD positions in the topical area of climate and energy. The focus is on mitigation and adaptation strategies in the Indian megacity Hyderabad. See more details below and in the attachments. Note that the division is located in Berlin Mitte, providing a prime location for good life.

The Division of Resource Economics at the Faculty of Agriculture and Horticulture of Humboldt-University Berlin is coordinating the Project: “MEGACITIES - Climate and Energy in a complex transition process towards Sustainability in Hyderabad". The Project is funded by the German Federal Ministry for Research and Education (BMBF) involving 11 German, Indian and International Partners. The objective of the Project is to establish Hyderabad as a “Low Emission City in Asia"; it comprises the following components: (a) Designing a “Sustainable Development Framework", which involves mitigation and adaptation strategies regarding climate change and the provision of energy; (b) developing a “Perspective Action Plan" towards conceptualizing relevant implementation strategies and (c) initiating pilot projects, learning processes, institutions and governance structures, so as to contributing to permanent behavioral changes.

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