

From: Gil Masters (gmasters@stanford.edu)
To: energyfolks@mailman.stanford.edu
Date: Sunday, November 9, 2008 10:54:27 PM
Subject: quickie energy stuff

STANFORD STUFF

1. Upcoming Energy Seminars: Nov 12 Solar Thermal Power
2. Vinod Khosla Lecture, Monday November 17 5:30 pm
3. ES 205: The Political Economy of Energy Policy sign up

ENERGY NEWS

4. Nifty new solar and wind maps for North and South America
5. In case you missed it...Al Gore's NYTimes column Nov 9

JOBS

1. Analyst/Sr. Analyst (Energy & Materials): CMEA Ventures, SF
2. Solar Market Analyst
3. Director of the Energy Policy Institute, Boise State University
4. ARUP Recruiting at Stanford, Nov 17 and 19th
5. Renewable Energy Engineer, Toledo, OH
6. Sustainable Projects/Energy Manager at Nike
7. Residential Energy Efficiency Intern: Claremont Creek Ventures, Oakland
8. VP of Sales for a carbon company, SF
9. GreenPrimate: Freelance Forest Carbon Analyst

STANFORD STUFF

1. Upcoming Energy Seminars: Nov 12 Solar Thermal Power

- November 12
John O'Donnell, Energy Consultant
Solar Thermal Power
- November 19
Professor Yi Cui, Material Science and Engineering, Stanford University
Designing Nanomaterials for Energy Storage: Batteries and Supercapacitor
- **December 03 * (Followed by an Energy Social, Y2E2 Red Atrium)**
Professor Margot Gerritsen, Energy Resources Engineering, Stanford University
Marine energy technology: Making waves or riding the currents?

Wednesdays 4:15 - 5:15, Building 420, Rm. 40

2. Vinod Khosla Lecture, Monday November 17 5:30 pm

Conradin von Gugelberg Lecture
Vinod Khosla, Founder of Khosla Ventures

Monday, November 17, 2008
GSB South Building - Bishop Auditorium, 5:30 p.m.

Vinod Khosla (MBA '80) is a venture capitalist who focuses on traditional and clean technology investments and social ventures. He was founding CEO of Sun Microsystems and is a Partner at

Kleiner Perkins Caufield & Byers.

Hosted by: Stanford Graduate School of Business & the Woods Institute for the Environment

RSVP by November 7: http://www.gsb.stanford.edu/pmp/events/form_cvq.html

This annual lecture was established by members of the MBA Class of 1987 in memory of their classmate Conradin von Gugelberg (1957-1988), who had a special commitment to preserving and protecting the earth's resources.

3. ES 205: The Political Economy of Energy Policy sign up

Winter Quarter
Meets MW 8:15-9:45
Application Deadline is Monday, November 17th at 5pm
Apply online: pangea.stanford.edu/esys

Earth Systems 205/Law 227
Instructor: David Victor

The class will introduce students to the major theoretical frameworks used by political scientists, sociologists, economists, and other intellectual disciplines to understand how societies design and implement public policies related to energy, and how the energy industry responds. Topics covered will include theories of the state, monopoly and regulation, public choice, organizational behavior, international agreements, and innovation. The class will apply these theories to major current and historical issues in energy policy, such as ethanol, climate change, energy security, the role of national oil companies in the world oil market, the functioning of OPEC, and the California electricity crisis.

The course will be taught by Professor David Victor, Professor of Law and Director of the Program on Energy and Sustainable Development (PESD) at the Freeman Spogli Institute for International Studies. For more information on Dr. Victor or the work at PESD please visit <http://pesd.stanford.edu>.

The course is intended for advanced undergraduates and graduate students in Public Policy, Political Science, the School of Engineering, and Earth Systems, as well as the Law School and Graduate School of Business. Students will be expected to have basic familiarity with energy technologies and concepts as well as basic understanding of economics. Recommended prerequisites include Economics 1 and 50 (or equivalent) and CEE 173A: Energy Resources (or equivalent).

To apply, fill out the online application by Monday, November 17th at 5pm. <http://pangea.stanford.edu/ESYS/registration/register205.php> <<http://pangea.stanford.edu/ESYS/registration/register205.php>> .

Due to the nature of the class, it will be necessary to restrict enrollment to approximately 20 students. Auditors will not be considered.

For further questions please email Megan Hansen (mvhansen@stanford.edu <<mailto:mvhansen@stanford.edu>>).

ENERGY STUFF

4. Nifty new solar and wind maps for North and South America

Extensive solar and wind data nicely geographically presented. You need to register, but it takes 30 seconds and is free. <http://firstlook.3tiergroup.com/>

5. The Climate for Change

November 9, 2008

OP-ED CONTRIBUTOR

By AL GORE

THE inspiring and transformative choice by the American people to elect Barack Obama as our 44th president lays the foundation for another fateful choice that he — and we — must make this January to begin an emergency rescue of human civilization from the imminent and rapidly growing threat posed by the climate crisis.

The electrifying redemption of America's revolutionary declaration that all human beings are born equal sets the stage for the renewal of United States leadership in a world that desperately needs to protect its primary endowment: the integrity and livability of the planet.

The world authority on the climate crisis, the Intergovernmental Panel on Climate Change, after 20 years of detailed study and four unanimous reports, now says that the evidence is "unequivocal." To those who are still tempted to dismiss the increasingly urgent alarms from scientists around the world, ignore the melting of the north polar ice cap and all of the other apocalyptic warnings from the planet itself, and who roll their eyes at the very mention of this existential threat to the future of the human species, please wake up. Our children and grandchildren need you to hear and recognize the truth of our situation, before it is too late.

Here is the good news: the bold steps that are needed to solve the climate crisis are exactly the same steps that ought to be taken in order to solve the economic crisis and the energy security crisis.

Economists across the spectrum — including Martin Feldstein and Lawrence Summers — agree that large and rapid investments in a jobs-intensive infrastructure initiative is the best way to revive our economy in a quick and sustainable way. Many also agree that our economy will fall behind if we continue spending hundreds of billions of dollars on foreign oil every year. Moreover, national security experts in both parties agree that we face a dangerous strategic vulnerability if the world suddenly loses access to Middle Eastern oil.

As Abraham Lincoln said during America's darkest hour, "The occasion is piled high with difficulty, and we must rise with the occasion. As our case is new, so we must think anew, and act anew." In our present case, thinking anew requires discarding an outdated and fatally flawed definition of the problem we face.

Thirty-five years ago this past week, President Richard Nixon created Project Independence, which set a national goal that, within seven years, the United States would develop "the potential to meet our own energy needs without depending on any foreign energy sources." His statement came three weeks after the Arab oil embargo had sent prices skyrocketing and woke America to the dangers of dependence on foreign oil. And — not coincidentally — it came only three years after United States domestic oil production had peaked.

At the time, the United States imported less than a third of its oil from foreign countries. Yet today, after all six of the presidents succeeding Nixon repeated some version of his goal, our dependence has doubled from one-third to nearly two-thirds — and many feel that global oil production is at or near its peak.

Some still see this as a problem of domestic production. If we could only increase oil and coal production at home, they argue, then we wouldn't have to rely on imports from the Middle East. Some have come up with even dirtier and more expensive new ways to extract the same old fuels, like coal liquids, oil shale, tar sands and "clean coal" technology.

But in every case, the resources in question are much too expensive or polluting, or, in the case of “clean coal,” too imaginary to make a difference in protecting either our national security or the global climate. Indeed, those who spend hundreds of millions promoting “clean coal” technology consistently omit the fact that there is little investment and not a single large-scale demonstration project in the United States for capturing and safely burying all of this pollution. If the coal industry can make good on this promise, then I’m all for it. But until that day comes, we simply cannot any longer base the strategy for human survival on a cynical and self-interested illusion.

Here’s what we can do — now: we can make an immediate and large strategic investment to put people to work replacing 19th-century energy technologies that depend on dangerous and expensive carbon-based fuels with 21st-century technologies that use fuel that is free forever: the sun, the wind and the natural heat of the earth.

What follows is a five-part plan to repower America with a commitment to producing 100 percent of our electricity from carbon-free sources within 10 years. It is a plan that would simultaneously move us toward solutions to the climate crisis and the economic crisis — and create millions of new jobs that cannot be outsourced.

First, the new president and the new Congress should offer large-scale investment in incentives for the construction of concentrated solar thermal plants in the Southwestern deserts, wind farms in the corridor stretching from Texas to the Dakotas and advanced plants in geothermal hot spots that could produce large amounts of electricity.

Second, we should begin the planning and construction of a unified national smart grid for the transport of renewable electricity from the rural places where it is mostly generated to the cities where it is mostly used. New high-voltage, low-loss underground lines can be designed with “smart” features that provide consumers with sophisticated information and easy-to-use tools for conserving electricity, eliminating inefficiency and reducing their energy bills. The cost of this modern grid — \$400 billion over 10 years — pales in comparison with the annual loss to American business of \$120 billion due to the cascading failures that are endemic to our current balkanized and antiquated electricity lines.

Third, we should help America’s automobile industry (not only the Big Three but the innovative new startup companies as well) to convert quickly to plug-in hybrids that can run on the renewable electricity that will be available as the rest of this plan matures. In combination with the unified grid, a nationwide fleet of plug-in hybrids would also help to solve the problem of electricity storage. Think about it: with this sort of grid, cars could be charged during off-peak energy-use hours; during peak hours, when fewer cars are on the road, they could contribute their electricity back into the national grid.

Fourth, we should embark on a nationwide effort to retrofit buildings with better insulation and energy-efficient windows and lighting. Approximately 40 percent of carbon dioxide emissions in the United States come from buildings — and stopping that pollution saves money for homeowners and businesses. This initiative should be coupled with the proposal in Congress to help Americans who are burdened by mortgages that exceed the value of their homes.

Fifth, the United States should lead the way by putting a price on carbon here at home, and by leading the world’s efforts to replace the Kyoto treaty next year in Copenhagen with a more effective treaty that caps global carbon dioxide emissions and encourages nations to invest together in efficient ways to reduce global warming pollution quickly, including by sharply reducing deforestation.

Of course, the best way — indeed the only way — to secure a global agreement to safeguard our future is by re-establishing the United States as the country with the moral and political authority to lead the world toward a solution.

Looking ahead, I have great hope that we will have the courage to embrace the changes necessary to save our economy, our planet and ultimately ourselves.

In an earlier transformative era in American history, President John F. Kennedy challenged our nation to land a man on the moon within 10 years. Eight years and two months later, Neil Armstrong set foot on the lunar surface. The average age of the systems engineers cheering on Apollo 11 from the Houston control room that day was 26, which means that their average age when President Kennedy announced the challenge was 18.

This year similarly saw the rise of young Americans, whose enthusiasm electrified Barack Obama's campaign. There is little doubt that this same group of energized youth will play an essential role in this project to secure our national future, once again turning seemingly impossible goals into inspiring success.

Al Gore, the vice president from 1993 to 2001, was the co-recipient of the Nobel Peace Prize in 2007. He founded the Alliance for Climate Protection and, as a businessman, invests in alternative energy companies.

JOBS

1. Analyst/Sr. Analyst (Energy & Materials): CMEA Ventures, SF

This position will primarily be responsible for assisting the Energy & Materials Managing Director in all aspects of deal due diligence, portfolio company monitoring, and market analysis. Day-to-day activities will include the following:

- Assisting the Managing Director in preparing for Board of Directors meetings;
 - Scanning industry journals to create short summaries on energy-related current events relevant to portfolio companies and priority deals;
 - Identifying and facilitating partnership opportunities for CMEA and its portfolio;
 - Reviewing, assimilating, and critically summarizing transaction-related documents;
 - Performing some due diligence and research for priority new deals;
 - Conducting occasional market sector “deep dives” to determine the attractiveness of an investment sector; and
 - Preparing materials for keynote presentations at industry conferences.
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- Qualifications
 - Engineering or research science undergraduate degree (Materials Science, Electrical Engineering & Computer Sciences, Chemical Engineering, etc.) from a premier university;
 - Previous venture capital, management consulting, or investment banking experience from an industry leading shop is required.
 - CMEA Ventures is a San Francisco-based venture capital firm with a clear focus on life sciences, high technology, and energy and materials investments. We believe that the most successful venture backed companies are those that are science based, with experienced teams that have a vision. As a result, CMEA typically invests in companies that have cutting edge and highly differentiated technology at their core and founding teams of the highest caliber still in place. These are companies that have the potential to transform their industries.

CMEA invests in both early and late stage ventures, and has a strong network of corporate, investment, and entrepreneurial relationships that it leverages on behalf of its portfolio companies. The firm currently manages seven funds representing investments in excess of \$1.2 billion.

- Rachel Sheinbein | CMEAVentures
(415) 352-1520 ext. 256 | rachel@cmeaventures.com

2. Solar Market Analyst

Note: Job offer through a recruiter, please contact Ana M. Christopher with ExecuQuest for more information.

In addition to it being a dual role, the policy advocacy role is someone who represents the client organization to outside agencies and trade organizations, ei. Solar Alliance etc. The individual has to be passionate about renewable and want to engage in fruitful conversation about certain policies that will affect the client organization etc. Strong writing skills are needed, for documentation, papers. etc.

We are looking for someone with 4+ years of private sector experience or relevant experience. Compensation range is between 80-100K (100K for the "perfect" fit) and a 12% MBO bonus

The Essential Functions of the Position include, But are Not Limited to the Following:

- Research trend and analyze market intelligence data including competitive analysis, industry and policy data that will impact the PV industry in the US and globally
- Track company's PV business and industry growth to develop a trend and measure market share data and report findings to management
- Compile and analyze sales history, market trends, market share to assist sales team to better forecast future sales
- Attend and support trade shows and conferences
- Provide clear, accurate and concise reports on PV industry programs or market reports in a timely manner
- Collaborate with marketing staff to tailor messaging and material for the public and customers
- Attend state energy commission or PV advocacy trade association meetings to stay updated on PV and renewable energy programs
- Serve as company's regulatory representative on Renewable Energy and PV related topics as needed
- Write/issue briefs, reports, fact sheets, web postings on legislative and regulatory topics concerning PV, renewable energy or climate change
- Compile monthly roundup of pertinent energy and PV policy news and events
- Research and develop positions on specific legislative and policy issues that will impact company's PV business
- Will travel when needed.

The Non-Essential Functions of the Position Include, but are not Limited to the Following:

- Performs other job functions as assigned.

Experience/Training

- 4 years degreee in Business, Policy, Environmental Studies or related discipline/coursework (Masters Degree a plus)
- Minimum 5 to 10 years of work experience in related field
- A very good writer in the policy context – attention to detail is critical!
- Ability to synthesize information on specific renewable energy topics, utilizing a variety of sources
- Communicate clearly, effectively, tactfully and persuasively, orally and in writing, to individuals, management and groups
- Possess knowledge of at least one energy-specific policy issue
- Possess familiarity and experience with core environmental issues (a plus)
- Must be able to handle multiple projects simultaneously within stringent time constraints.
- Must be proficient in the usage of the Microsoft Office Suite of products including at least the following: Word, PowerPoint, Excel, and Outlook.
- A deep desire to be in the renewable energy business

Please contact:

Ana M. Christopher, President
The ExecuQuest Group, Inc.
3223 James Street
San Diego, CA 92106
phone: 619.224.7949
email: ana@execuquest.net

3. Director of the Energy Policy Institute, Boise State University

Assistant/Associate/Full Professor

Director of the Energy Policy Institute and Associate Director of the Center for Advanced Energy Studies

College of Social Sciences and Public Affairs, SS-0010-89

Boise State University invites interested applicants for the position of Director of the Energy Policy Institute and Associate Director of the Center for Advanced Energy Studies, to become a part of our team to continue our quest toward becoming a Metropolitan Research University of Distinction.

The EPI Director will hold a joint appointment as one of the three university Associate Directors for the Center for Advanced Energy Studies. EPI is part of the Center for Advanced Energy Studies (CAES) being developed in collaboration with the Battelle Energy Alliance (BEA) at the Idaho National Laboratory (INL), the University of Idaho and Idaho State University. The director will report to BSU's Dean of the College of Social Sciences and Public Affairs. While the EPI director will primarily work in Boise, some travel to CAES in Idaho Falls will be required.

You will have the opportunity to:

- hold a joint appointment as one of three university Associate Directors for the Center of Advanced Energy Studies;
- provide programmatic, administrative and technical support to CAES and will serve as a BSU institutional point of contact for CAES-affiliated activities;
- teach two seminars a year and conduct research in aspects of energy/environmental policy;
- supervise graduate students and professional staff.

At a minimum you should have:

- Master's degree; and at least 5 years experience in a related field

The preferred candidate will have:

- PhD in Public Policy or a related field;
- familiarity with working environment in academic and public settings;
- a demonstrated record in conducting energy policy analysis and research;
- a demonstrated ability to work with multiple constituents in a collaborative manner and develop sustainable funded research programs.

Please submit a letter of application indicating your interest and qualifications for this position. Attach curriculum vitae, evidence of research and teaching excellence, as well as three professional references with contact information. Application materials should be emailed to sspadean@boisestate.edu or mailed to:

Shelton Woods, PhD, Search Committee Chair

College of Social Sciences and Public Affairs

Search # SS-0010-89

Boise State University

1910 University Drive

Boise, ID 83725-1900

Review of applications will begin November 15th, 2008 and will continue until position is filled.

About the Department: <http://sspa.boisestate.edu/>

4. ARUP Recruiting at Stanford, Nov 17 and 19

ARUP is a leading design and consulting firm with 10,000 employees. Among other buildings, they designed the "Birds Nest" and WaterCube at the Beijing Olympics, the California Academy of Sciences, as well as Stanford's own Y2E2 building and the new GSB quad.

Information Session: Nov 17 (also for summer interns), 6:30 - 7:30, Cypress North, Stanford.
RSVP to julie.jeffery@arup.com. Pizza will be served.

Interviews: Nov 19th. Career Development Center, Stanford

www.goarup.com

5. Renewable Energy Engineer, Toledo, OH

My client, a top 10 nationwide A/E firm is in need of a direct hire Sustainable and Renewable Energy Specialist/Engineer. In order to be qualified, you must have at least 5 years experience in the design and/or installation and implementation of alternative energy products and technologies including: wind power, solar, thermal, fuel cells, biomass and/or biofuels. The position pays \$75,000 - \$100,000 and will be based in Toledo, OH. If interested, please contact Jason Pindzia at jpindzia@itstechnologies.com for more details."

6. Sustainable Projects/Energy Manager at Nike

As Nike's Sustainable Projects/Energy Manager, you'll develop and manage efforts to increase operational and resource efficiency (energy, solid waste, natural gas, and water), at Nike facilities in North America.

DUTIES: You'll develop and manage resource conservation projects, manage contractors to provide the most efficient and cost-effective implementation for both new projects and ongoing operations, and work to maximize the benefit to Nike by implementing pilot phase technologies and processes. You'll research and implement other cost saving strategies, such as utility rebates, on all projects, and manage the research, analysis, contract negotiations and implementation of cost-effective electricity providers in deregulated electricity markets. You'll also analyze the energy and solid waste billing for potential efficiency projects and billing discrepancies. You'll partner with local utilities and non-governmental organizations to further reduce Nike facilities financial and environmental impact. You'll design and initiate programs that maximize Nike's ability to successfully integrate sustainable materials, products and processes into the business. You'll create sustainability policies to improve sustainable performance and ease of internal and external communication. You'll also create and maintain a Facilities Sustainability intranet site with regular updates, and ensure that information contained on the site is accurate, current and consistent with the latest collected metrics. You'll research certification opportunities for Nike facilities and manage contractors/consultants during the certification and publication phases. In addition, you'll manage the collection and analysis of sustainability data for Nike facilities in North America.

REQUIREMENTS:

- . Bachelor's degree in Environmental Science or Engineering, Business Management or a related field
- . 2-3 years' experience with environmental projects, community outreach and/or brand marketing, with experience in the public, private and/or

NGO sectors

- . Experience in performing energy payback analysis for in-place mechanical and electrical facility systems
- . Experience performing technical analysis of energy projects
- . Strong organization skills, including strong project and program management skills
- . Effective multitasking skills
- . Strong verbal/written communication and interpersonal skills and the ability to work effectively across diverse teams
- . Proficiency with MS Office products, including Word, Excel, PowerPoint and Outlook
- . Experience managing project budgets is preferred
- . Experience managing subcontractors is preferred
- . Experience operating lighting meters and conducting before/after testing of lighting projects is preferred
- . LEED AP designation or working toward certification is preferred

TO APPLY: <http://www.nikebiz.com/careers/us/taleo.php?view=list> and search for Job Number 040516.

7. Residential Energy Efficiency Intern: Claremont Creek Ventures, Oakland

Claremont Creek Ventures, an Oakland-based venture capital firm, is seeking an intern who is knowledgeable in the field of energy conservation and in particular conservation in residential housing. He or she should also understand the economics of carbon cap and trade markets as well as government and private incentive and rebate programs. The intern will participate in the development of an early stage start-up that is currently being incubated at Claremont Creek Ventures.

To apply, please send a statement of interest and resume to Vidya@claremontvc.com

[Vidya Sundaram, Associate, Claremont Creek Ventures](#)

510.740.5011 vidya@claremontvc.com

8. VP of Sales for a carbon company, SF

Looking for Vice President of Sales for Carbon Company

SaaS platform to cut the cost of developing and managing carbon credits. One of a kind. Venture backed. CEO on 4th startup.

You must, either:

- Know energy, carbon, and environmental industry inside and out and have

a spectacular rolodex in CDM world and

- Be an amazing salesperson

Or

- Have proven record selling C-level with VP level title from startups
- Have massive amounts of international experience
- Excel at evangelical selling and ROI based groundfloor sales of software or SaaS

Prior startup experience preferred, but above all be amazing. Technical undergrad/business grad degree or vis versa preferred. Multilingual preferred. Location flexible. No prima donna management types, you get to build your global sales team AFTER you've personally closed the first big deals.

Neal Dikeman

Carbonflow, Inc.
jobs@carbonflow.com

9. GreenPrimate: Freelance Forest Carbon Analyst

From: "ldosunmu@comcast.net" <ldosunmu@comcast.net>
Subject: [gsb-alumni-pmp] Freelance Forest Carbon Analyst

My company GreenPrimate is doing work in energy and environmental analyses, and we are looking for an experienced individual forest carbon analyst for a freelance gig. I would appreciate any leads.

Many thanks,

Ade

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

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energyfolks mailing list

energyfolks@lists.stanford.edu

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