Strategic Issues in Energy Resources and Politics

Time: Tuesdays, Noon-1:30 p.m., October 6 to November 10

Location: Goldman Theater, David Brower Center, 2150 Allston Way, Berkeley

Professor: **Daniel Kammen**
Class of 1935 Distinguished Professor of Energy
Energy and Resources Group & Goldman School of Public Policy
310 Barrows Hall Email: kammen@berkeley.edu
Office Hours: call the Energy and Resources Group at 642-1640

Website: http://olli.erg.berkeley.edu & http://rael.berkeley.edu

Description: Energy is the biggest industry on the planet - come and find out its secrets! Developed in collaboration with *The New York Times* science writer Matt Wald, this course will cover the most pressing concerns regarding energy resources and policies. Kammen's lectures will cover our energy system and climate change, renewable energy, and energy policy and politics. Other Berkeley faculty members will address nuclear power, alternatives to gasoline, and the power grid. The course will include an online component with discussion, readings, and links to the most up to date material to be discussed at the United Nations Climate Change Conference this December in Copenhagen. Get involved!

Readings: A number of readings, both *required and supplemental*, are available on through the course website. *Required Reading* assignments should be completed before the lecture for which they are assigned.

Discussion: We have room for questions and discussion during class time, but we also encourage active participation outside the classroom. The course website has a discussion forum where you can post your responses to the readings and lectures, or other ideas you wish to discuss. Feel free to bring other articles you have read or personal experiences into these online discussions!

Assignments: Readings

Other: Technical and policy memo (due November 10)

Schedule:

OLLI @ University of California Berkeley
Osher Lifelong Learning Institute

The New York Times

Class 1:	October 6
Topic:	Introduction and Overview
Lecturer:	Dan Kammen, Class of 1935 Distinguished Professor of Energy, Energy and Resources Group and Goldman School of Public Policy, UC Berkeley
Reading:	The Power of Green by Thomas Friedman, available at www.nytimes.com The rise of renewable energy by Dan Kammen in *Scientific American* http://rael.berkeley.edu/files/2006/Kammen-SciAm-Renewables-9-06.pdf
Class 2:	October 13
Topic:	Energy Economics
Lecturer:	Severin Borenstein, E.T. Grether Professor of Business and Public Policy at UCB's Haas School of Business, Director of the UC Energy Institute
Reading:	Cost, Conflict and Climate: U.S. Challenges in the World Oil Market http://www.ucei.berkeley.edu/PDF/csemwp177r.pdf
Class 3:	October 20
Topic:	Nuclear Energy
Lecturer:	Per Peterson, Professor and former Chair of Nuclear Engineering at UCB, Director of the UC Berkeley Thermal Hydraulics Research Laboratory
Reading:	What history can teach us about the future costs of U.S. nuclear power http://er100200.berkeley.edu/readings/Hultman_2007.pdf
Class 4:	October 27
Topic:	Power Grid
Lecturer:	Mason Willrich, senior advisor to the MIT Energy Innovation Project and Chair of the California Independent Service Operators Board of Governors
Reading:	Electricity Transmission Policy for America: Enabling a Smart Grid, End-to-End http://web.mit.edu/ipc/research/energy/pdf/EIP_09-003.pdf
Class 5:	November 3
Topic:	Biofuels
Lecturer:	Chris Somerville, Philomathia Professor of Alternative Energy at UCB Department of Plant and Microbial Biology, and Director of the Energy Biosciences Institute at UC Berkeley,
Reading:	Smart Choices for Biofuels http://www.worldwatch.org/files/pdf/biofuels.pdf
Class 6:	November 10
Topic:	Conclusion, Road to Copenhagen
Lecturer:	Dan Kammen
Reading:	"Synthesis Report" Climate Change Global Risks, Challenges & Decisions http://climatecongress.ku.dk/pdf/synthesisreport/