

MIT-Wide Energy and Environment Class, Spring 2008

Course Numbers: 11.369/17.398J/ESD.934

Monday/Wednesday 9:00—10:30

Units: 3-0-9, Room 4-153

“Energy Policies for a Sustainable Future”

Visiting Lecturer: Dr. Jonathan Raab, Raab Associates, Ltd.

This course provides students with exposure to a wide range of current energy and energy-related environmental policies that foster the development and mass deployment of sustainable energy technologies (e.g. energy efficiency, renewable energy, and other lower-carbon technologies), fuels, and practices. The primary focus is on US based policies at the state, regional and federal level that impact the electricity, transportation and buildings and facilities sectors. We will also touch briefly on international policies and practices for purposes of comparison.

Topics covered include: 1) National Efforts to Formulate a Comprehensive US Energy Policy; 2) Greenhouse Gas Reducing Policies; 3) Restructuring the Electric Utility Industry; 4) Renewable Energy Policies; 5) Energy Efficiency Policies; and 6) Policies to Reduce Oil Use in the Transportation Sector.

The course is grounded in a series of detailed case studies that explore substantive policy and program design issues as well as the political processes (often involving innovative consensus seeking techniques) used to develop them. In addition to readings from a wide variety of sources, the course will include numerous guest appearances from nationally recognized policy makers, and practitioners, including:

- **Susan Tierney**, Analysis Group (former US DOE Assistant Secretary for Policy and Massachusetts Secretary of Environment and MA PUC Commissioner)
- **Gordon van Welie**, CEO, ISO New England
- **Phil Giudice**, Commissioner MA Division of Energy Resources
- **Bob Grace**, President, Sustainable Energy Advantage
- **Greg Watson**, Assistant Secretary for Clean Energy/Technology, MA EOEEA
- **Sue Coakley**, President, Northeast Energy Efficiency Partnership
- **John Heywood**, Professor Mechanical Engineering, MIT

This course is co-sponsored by the Department of Urban Studies and Planning (DUSP), Political Science, and the Technology and Policy Program (TPP)/Engineering System Design (ESD) with support from the new MIT Energy Initiative. It is open to graduate students and advanced undergraduates with permission of the instructor. Assignments will include short almost weekly written journal responses, a mid-term policy analysis, and a final project.

Dr. Jonathan Raab, President of Raab Associates, Ltd. (www.RaabAssociates.org) is a national leader in applying consensus-building processes to energy and environmental issues such as the Regional Greenhouse Gas Initiative (RGGI) and Cape Wind stakeholder processes. He has also run the Electric Industry Restructuring Roundtable in New England for 12 years. Formerly, Dr. Raab was the Assistant Director of the Electric Power Division at the Massachusetts Department of Public Utilities. He holds a Ph.D. from MIT and an M.S. and A.B. from Stanford, is the author of *Using Consensus Building to Improve Utility Regulation* (ACEEE: Washington, D.C.), and has taught courses at Stanford, the University of Oregon, and UMass (Boston).