

Spring 2016 subject:

Energy Technology and Policy, from Principles to Practice

Prof. John Deutch

Institute Professor of Chemistry

Former Director Energy
Research, Undersecretary of the
Department of Energy

Current chair of the Secretary of
Energy Advisory Panel (SEAB)



New Joint Subject [9 units: 5.00(J),
6.929(J), 10.579(J), 22.813(J), ESD.174(J)]

TR 8:30am-10am
Room 4-149

Abstract

Successful innovation in the energy sector requires the integration of technical, economic, and social consideration. The social consideration includes political affairs, environmental impacts, and government regulations and policies. The purpose of this course is to give students an appreciation of how successful integration is accomplished in order to prepare them to be leaders in the successful implementation of technology.

Technologies considered include oil and gas, nuclear, solar and energy efficiency. Both corporate and government viewpoints are considered as well as international aspects such as nuclear weapons proliferation and global climate issues.

Emphasis is placed on analytic techniques that are a “tool box” for working on technology integration. The class is open to graduate and advanced undergraduate students.

About the Professor

John Deutch has been a member of the MIT faculty since 1970, and has served as Chairman of the Department of Chemistry, Dean of Science and Provost. Mr. Deutch has published over 140 technical publications in physical chemistry, as well as numerous publications on technology, energy, international security, and public policy issues. From 1977 to 1980, John Deutch served in a number of positions for the U.S. Department of Energy: as Director of Energy Research, Acting Assistant Secretary for Energy Technology, and Undersecretary of the Department. In May 1995, he was sworn in as Director of Central Intelligence following a unanimous vote in the Senate, and served as DCI until December 1996. In this position, he was head of the Intelligence Community (all foreign intelligence agencies of the United



States) and directed the Central Intelligence Agency. From March 1994 to May 1995, he served as the Deputy Secretary of Defense. From March 1993 to March 1994, Deutch served as Under Secretary of Defense for Acquisitions and Technology. He is the current chair of the Secretary of Energy Advisory Panel at the US Department of Energy.