

# in Topic	Topic	Comment
1	Alternative Technologies	Alternative energy sources (general to all undergrads)
2	Alternative Technologies	fuel cell technology, solar power technology, general class on renewable energy
3	Alternative Technologies	Photovoltaics Course: Technology, Policy, and Business Sides
4	Alternative Technologies	IAP survey of alternative energy sources and applicability
5	Alternative Technologies	The engineering of alternate energy sources (how to actually build/create them)
6	Alternative Technologies	Wind turbine engineering, frontiers in photovoltaics, hydrogen economy?-where's the hydrogen?, Future of Fusion, Clean Coal - Is there any such thing?,
7	Alternative Technologies	emerging energy solutions - taught by several faculty members from various engineering departments to describe, estimate and even speculate about possible technological solutions to our growing energy needs. Mainly technical focus.
8	Alternative Technologies	classes focusing on solar energy, wind energy, hydroenergy and their pros and cons, power engineering (i.e. how to get energy from the place it is generated to where it is needed, and how to store large amounts of energy)
9	Alternative Technologies	specialty courses in specific technologies (e.g. photovoltaic)
10	Alternative Technologies	Basic overview of alternative sources of energy. Not too technical, but let's students see which to study more.
11	Alternative Technologies	A course specifically on solar energy, and a course on general alternative energy
12	Alternative Technologies	Hydrogen-based energy production (theory, policy, and current state)
13	Alternative Technologies	Alternative Energy
14	Alternative Technologies	undergraduate classes on alternative energy sources.
15	Alternative Technologies	courses on electric or alternate propulsion
16	Alternative Technologies	A more hands on course for creating and implementing alternative energy solutions. e.g. converting a dorm to partial solar power, outfitting ailing pavilion to harvest wind energy.
17	Alternative Technologies	More technical courses on renewables - wind, solar, etc.
18	Alternative Technologies	Technology-specific classes (ie: fuel cells)
19	Alternative Technologies	Maybe a wind power class
20	Alternative Technologies	Solar Power and Wind Power
21	Alternative Technologies	alternative energy, renewable energy
22	Alternative Technologies	I don't know what courses are being offered, but I would like to have courses that focuses on the wide range of alternative energy sources that are available and also focuses on issues with cost and availability of these sources as well as existing sources
23	Alternative Technologies	Pros and Cons to alternative energy sources. Technical hurdles to be overcome for each.
24	Alternative Technologies	courses studying alternative energy supplies
25	Alternative Technologies	renewable resources engineering
26	Alternative Technologies	Alternative Energy
27	Alternative Technologies	Clean Energy Development and Implementation classes (I don't know if they already exist)
28	Alternative Technologies	Renewable energy 101
29	Alternative Technologies	Wind Engineering
30	Alternative Technologies	Renewable energy options. What they are, how they work, their problems, how to implement them.
31	Alternative Technologies - Fuel Cells	Electrochemical Conversion Course: Batteries and Fuel Cells
32	Alternative Technologies - Fuel Cells	Fuel Cells
33	Alternative Technologies - Fuel Cells	Fuel Cells
34	Alternative Technologies - Fuel Cells	Fuel Cells,
35	Alternative Technologies - Fuel Cells	Fuel Cell Technology
36	Alternative Technologies - Solar	solar energy
37	Alternative Technologies - Solar	solar cell design class. LED design class
1	Buildings/Planning	Greening buildings.
2	Buildings/Planning	sustainable building design courses
3	Buildings/Planning	Energy in the built environment
4	Buildings/Planning	green building
5	Buildings/Planning	survey courses of environmentally friendly buildings
6	Buildings/Planning	interdisciplinary energy relevant design classes urban planning from an energy perspective
1	Chemistry	specifically, I would like an energy survey course that focuses on designing chemical processes (model hydrogen fuel cells) that are reversible by adding energy from source x (model sunlight), implementing such a process in a closed cycle system (excepting input x), and scaling such a process for applications
2	Chemistry	Chemical Strategies to Reduce Energy and Resource Depletion
3	Chemistry	energy and chemistry
4	Chemistry	Undergraduate electrochemistry
5	Chemistry	Green Chemistry (which can still be energy related)
1	Conventional Technologies	Fundamental Petroleum Engineering Courses in Reservoir Simulation and Engineering

2	Conventional Technologies	Contemporary Pursuit of Global Energy Production
3	Conventional Technologies	More frequent combustion courses
4	Conventional Technologies	A survey course on fossil fuel energy taught jointly between a practitioner and an academic (maybe someone from the new Schlumberger research center adjacent to the campus?)
5	Conventional Technologies	Internal combustion engine courses and also on gas turbines in power sector.
6	Conventional Technologies	Fossil fuels 101,
7	Conventional Technologies	Petroleum engineering.

1	Developing World	Energy in the developing world
2	Developing World	The energy requirements involved in globalization and transportation
3	Developing World	more detailed surveys of developing countries, issues they face technology reviews for energy-related work
1	Economics/Business	Management of transition to new sources of energy globally
2	Economics/Business	In-depth and not superficial approach of the Economics of Energy
3	Economics/Business	Energy Economics
4	Economics/Business	More energy-related business classes
5	Economics/Business	Economics of the Energy industry
6	Economics/Business	MIT focused almost exclusively on the technical aspects yet when we graduate we frequently make it up into management positions which most graduates have no experience in. Therefore I think it'd be very beneficial to incorporate classes on managing and leadership for energy related fields.
7	Economics/Business	Oil Market Issues
8	Economics/Business	Business modeling for alternative energy projects
9	Economics/Business	Energy Management
10	Economics/Business	Need energy sector courses at Sloan or interdisciplinary courses (can be IAP) which look at opportunities in energy sector. MIT tends to have many technology/engineering courses but few which get closer to industry (i.e. solving real problems of utilities)
11	Economics/Business	A general survey course on the benefits and costs of both renewable and fossil fuel sources from both a technological and policy perspective (this could be jointly taught between civil, mechanical, nuclear, EECS, and perhaps Sloan)
12	Economics/Business	Course on energy (natural resource) economics and policy. The extent of coverage of this topic in the sustainable energy course is entirely insufficient for a graduate level treatment of the topic. John Holdren's course at Harvard is too broad for an adequate treatment of the policy issues.
13	Economics/Business	Funamental Equity Investing
14	Economics/Business	Energy Technology Entrepreneurship
15	Economics/Business	Sustainable Energy Implementation and Management
16	Economics/Business	Comparative Historical Energy Structures and Economies(USA, Soviet, EU, Third World)
17	Economics/Business	Ecological economics!!! It is a real shame that all the economics classes taught at this institute are not on the cutting edge of including an environmental perspective, of which energy is a part. In not one of my classes, except those taught by Nick Ashford and Larry Susskind, do the professors adequately recognize the hugely important role that energy and envrionment are playing already, and how we NEED to equip people graduating from this institute with the knowledge and skills to deal with these issues. Everyone I know who wants to learn an alternative to the traditional economics that's taught here goes to Harvard to learn it, for goodness sake! We should teach it here!
18	Economics/Business	14.XXX: Economic implications...
19	Economics/Business	Energy Management (course in 12- environmental and 15)
20	Economics/Business	Energy entrepreneurship, energy marketing, energy finance
21	Economics/Business	Survey of Energy Innovations & Economics
22	Economics/Business	Broad introduction to Resource Efficiency???
1	Energy History	the process and history of global and local energy distribution.
2	Energy History	As my research is in the History of Energy and the Environment, I would like to see (and would be happy to teach..) a course that roughly covers "Energy and the Environment in History" -- where students would learn from the excellent historical and social scientific research about energy production, distribution, and consumption in a broader cultural perspective.
3	Energy History	history of energy technology and availability
1	Global Warming	Global warming: causes and solutions (general to all undergrads)
2	Global Warming	A course focused on curbing global warming, and a course focused on the energy efficiency of transportation/vehicles.
3	Global Warming	Greenhouse gases.
4	Global Warming	biological impact of climate change
5	Global Warming	Carbon Mitigation and Sequestration
1	Human Behavior	Courses on behavioral models around energy consumption and best practices for leading change in consumption patterns of large groups (macro-behavior stuff based on individual decisions).
2	Human Behavior	How do you teach people to stop consuming? It's not a question to be answered by science. So, the best MIT can do is develop technology that informs people about energy issues.
3	Human Behavior	A course about public perceptions of the importance of energy conservation, and the attitudes that make it difficult to affect change in daily habits.
4	Human Behavior	something to do with psychological attachments to current energy usage
5	Human Behavior	Social issues related to energy problems; public policy, polititcs, energy security, etc.
6	Human Behavior	An "implications of energy consumption" series.
7	Human Behavior	STS.XXX Social implications...
8	Human Behavior	a global issues/awareness class to make students more aware of what issues our world is faces and how/why we can/should address them.
9	Human Behavior	How to lead a grass roots efforts to change energy use behavior.

1	Interdisciplinary	More interdisciplinary courses. It seems like most energy course are offered by Course 2. Unless you meet many of their pre-reqs, they are hard to take. Many of us with backgrounds in things such as power electronics could contribute to interdisciplinary courses
2	Interdisciplinary	Detailed courses dedicated to the economics, technology and policy issues in each of the following areas: oil, coal, natural gas, electricity, renewable energy (i.e. one class per energy sector)
3	Interdisciplinary	Courses with better interaction between technical, economical and political issues. It seems now that you are forced to stay either on the technological side or the economic/political side.
4	Interdisciplinary	More interdisciplinary courses
1	Nuclear	The future of Nuclear energy
2	Nuclear	Nuclear Energy for non-NucE majors
3	Nuclear	More emphasis on fusion in the Nuclear Eng. Dept.
4	Nuclear	Nuclear Energy with Aerospace Applications
5	Nuclear	Nuclear power for non nuke Es.
6	Nuclear	Seminars in breaking myths and generally educating about nuclear energy
7	Nuclear	Nuclear Power Industry course
1	Policy	US Energy Policy
2	Policy	International Energy Policy
3	Policy	More energy policy programs
4	Policy	energy policy
5	Policy	International energy/environmental policies
6	Policy	Interdisciplinary course on energy policy- aspects of economics, business, international relations, and sciences
7	Policy	Energy Policy & How Scientists can become involved at the national level
8	Policy	Energy Policy
9	Policy	politics of energy conservation- how to spread your message to the public
10	Policy	A class relating government and energy. Similar to 14.21, which is health economics, there should be a "energy economics" class.
11	Policy	Political economy of energy (dom and intl)
12	Policy	Energy industry & policy
13	Policy	Political economy of global energy use Studying energy utilization in context of globalization
14	Policy	Energy and Foreign Policy
15	Policy	I've taken 17.32 (Environmental Politics and Policy), but I would really like to take some sort of policy class related only to energy. Course 10 already has a lot of great classes related to energy, so I don't really need any more there.
16	Policy	Geo-Political implications..., 1
17	Policy	North-South Energy Concerns in Environmental Negotiation
18	Policy	Energy Policy
1	Pollution	Global pollution issues
2	Pollution	Energy Process Mitigation and Pollution Control
3	Pollution	Air Pollution Engineering
1	Power/Electricity	Electricity Markets and Operation
2	Power/Electricity	Power generation and distribution, Power plant design, Propecting for oil
3	Power/Electricity	Low Power Electronics
4	Power/Electricity	electricity economics, electricity engineering for the non-hardcore EE, energy and international trade
5	Power/Electricity	Reintroduce a strong course in electromagnetic fields and energy into the electrical engineering undergrad curriculum. The current 6.013 combined electrostatics/dynamics/etc class is too packed and is more of a survey class than anything. The old 6.013 laid the foundation for exactly the ground-level understanding students will need to work in electromagnetic energy generation, transmission, etc.
6	Power/Electricity	Survey in deploying energy efficient electricity projects for a profit
7	Power/Electricity	More on electrical grids: transmission and distribution and ISOs.
8	Power/Electricity	Electric Power System Operating Modes Carbon Emissions Inventory Assessment Technology Transition System Dynamics Energy Technology Cost Benefit Analysis Energy & Natural Resource Economics
9	Power/Electricity	Electricity restructuring Demand side managemet Mangement of transmission congestion Electricity pricing (transmission and distribution)
10	Power/Electricity	Electrical engineering has traditionally had two main branches, the transportation of energy, and the transportation of information. For someone like me, who is received much advanced training in the transportation of information, an introduction to the other half, couched in the language of information might be interesting.

1	Survey	A course that explains what are major energy concerns, perhaps how they came about, and tries to understand possible ways of fixing them.
2	Survey	Probable long term effects of our current use of resources in the world. ie, global warming, climate shift, overpopulation, inflation, etc.
3	Survey	a class about what natural energy resources we have left and the time that they have left before they are depleted; give a very realistic approach to the future in terms of energy
4	Survey	Some kind of Global energy survey course. It would cover all available energy sources, their pros and cons, costs, renewability, etc. Cover all the technical details that are missed by the media (i.e. fuel cells are great, but where do you get hydrogen? By burning coal?) Probably a 6-unit course with lots of interesting visiting lecturers. I'd take that course.
5	Survey	Maybe a seminar that discusses the spectrum of energy issues and how depleting resources and pollution may affect our future; and discussions of how we can plan/prepare and change that future
1	Systems	A course on the development of sustainable energy systems
2	Systems	Systems dynamics in global energy (Sloan)
3	Systems	decentralized energy technology design class integrating decentralized energy technology to current infrastructure biomass/biofuels
4	Systems	Energy Systems Integration
5	Systems	Environment and engineering at a global scale.
6	Systems	A course on the use of System Dynamics (Prof. John Sterman) for energy policy modeling and the dynamics of resource use, depletion, and substitution.
7	Systems	The Earth as an almost closed energy system. The sun and nuclear reactions as the only true energy inputs to the Earth, radiation into space as the only output. Our actions as energy transformations. Complete footprints of all our doings --- how much energy has been converted into useless forms for me to get my laptop? Include the energy cost of mining and shaping the materials, transportation of materials and workers to factories, laptop shipping, the environmental harm, if any, or me throwing it away --- everything.
8	Systems	System for energy generation. Real cost of energy generation
1	Transportation	Civil Engineering Department: Energy conservation in transportation systems
2	Transportation	Transport-related energy issues from a transportation planning practitioner standpoint
3	Transportation	transit and energy
4	Transportation	Energy efficient vehicle design
1	Miscellaneous	Energy in disaster management
2	Miscellaneous	energy auditing workshops (eg., for local buildings)
3	Miscellaneous	I would like something on energy efficient life cycle product design. I dont know if that exists within another class, but if it does, it should be better publicized.
4	Miscellaneous	junior/senior seminars on how research in our current fields can contribute to solving the energy problem
5	Miscellaneous	A course that overviews sources of waste energy in industry.
6	Miscellaneous	graduate level prototyping course
7	Miscellaneous	a mini-course (during IAP, maybe) on energy conservation/sustainable laboratory practices
8	Miscellaneous	Would like to see some course work on fuels,
9	Miscellaneous	New England Energy Issues
10	Miscellaneous	Renewal Energy Negotiation
11	Miscellaneous	Materials of Energy Production
12	Miscellaneous	Overview of Modern Energy-Related Physics,
13	Miscellaneous	Energy for Mathematicians
14	Miscellaneous	Energy Methods (via a tertiary class from Thermodynamics) Energy can be taught in all disciplines, and all disciplines are required in order to innovate.
15	Miscellaneous	Energy storage engineering, ,
16	Miscellaneous	energy transfer engineering
17	Miscellaneous	5.XXX: Technology & Innovation implications...
18	Miscellaneous	1-Dimensional Chaos and Scaling
19	Miscellaneous	energy and the american dream, ENERGY AND EQUITY, the end of suburbia
20	Miscellaneous	Energy reduction in manufacturing processes: from semiconductor wafer manufacturing to automobile manufacturing

1	General Comment	I don't know what courses I even need
2	General Comment	It would be nice to highlight potentially general-interest classes with minimal prereqs in some courses.
3	General Comment	Perhaps publicizing the list might be a good idea - some energy-related HASS classes (perhaps a concentration?)
4	General Comment	more specific classes regarding energy issues. there are very few classes offered right now.
5	General Comment	Would add issues of energy as a module in several related (urban planning) classes
6	General Comment	I would improve the Sustainable Energy class and make it more team-project-based, it might be a good catalyst for cross-disciplinary creativity if there was room to use it as such
7	General Comment	not more classes, but improve the ones that already exist
8	General Comment	courses in every major relating to energy... like interdisciplinary courses (like BE ones)
9	General Comment	actually, the only one i could find was in course 12 and was inconvenient for me to take. any others would be really exciting.
10	General Comment	No idea what's offered.
11	General Comment	A class on general engineering with energy to all engineering departments
12	General Comment	Seminars/lectures on energy- and environment-related issues.
13	General Comment	everyone should have to take a course on reducing their energy/pollution footprint
14	General Comment	More linking of these concerns into other courses
15	General Comment	A lot of the HASS classes that are energy/environmental related were not offered this fall. There are so many of them, yet not a single one of them was offered.
16	General Comment	None, the courses are offered, but they are not well publicised.
17	General Comment	I don't know if Sloan offers courses on entrepreneurship for energy alternatives