

Additional Readings for Critical Briefs

The following readings are selections that have been successfully used as assignments for critical briefs. You can substitute these topics and the associated readings for the ones suggested on *Student Worksheet 3.5*.

Entropy and Natural Resource Scarcity

- Rifkin, Jeremy. 1989. *Entropy: Into the greenhouse world*. New York, NY: Bantam, pp. 19-114, 207-256, 274-291.
- Dolloff, Norman H. 1975. Introduction. From *Heat death and the phoenix: Entropy, order, and the future of man*. Hicksville, NY: Exposition Press, pp. xi-xviii.
- Young, Jeffrey T. 1991. Is the entropy law relevant to the economics of natural resource scarcity? *Journal of Environmental Economics and Management* 21: 169-179.

After reading Young's article, students should also read the two Comment papers written in response to Young:

- Daly, Herman E. 1992. Is the entropy law relevant to the economics of natural resource scarcity? -- Yes, of course it is! *Journal of Environmental Economics and Management* 23: 91-95.
- Townsend, Kenneth N. 1992. Is the entropy law relevant to the economics of natural resource scarcity? Comment. *Journal of Environmental Economics and Management* 23: 96-100.

Nuclear Energy and Wastes

- Berkhout, Frans. 1994. Nuclear power: An industrial ecology that failed? In R. Socolow, C. Andrews, F. Berkhout, and V. Thomas, eds. *Industrial ecology and global change*. Cambridge, MA: Cambridge University Press, pp. 319-327.
- Hafele, Wolf. 1991. Energy from nuclear power. In *Energy for planet earth*, readings from *Scientific American*. New York, NY: W. H. Freeman, pp. 95-106.
- Weinberg, Alvin M. 1991. Is nuclear energy necessary? In T. Goldfarb, ed. *Taking sides*. Guilford, CT: Dushkin Press.
- Hayes, Denis. 1991. Nuclear power: The fifth horseman. In T. Goldfarb, ed. *Taking sides*. Guilford, CT: Dushkin Press.

In addition, ask students to locate at least one secondary reading that focuses on nuclear energy or issues of nuclear waste. They should provide complete bibliographic citations for each additional article they use and include a discussion of it in their critical brief.

Industrial Ecology & Fossil Fuels

For this brief, ask students to include a discussion of the first three articles below plus one that they have selected from those noted with asterisks (**). Students should also locate at least one additional reading that focuses on the industrial use of energy. They should provide complete bibliographic citations for each additional article they use and include a discussion of it in their critical brief.

- Graedel, Thomas. 1994. Industrial ecology: Definition and implementation. In R. Socolow, C. Andrews, F. Berkhout, and V. Thomas, eds. *Industrial ecology and global change*. Cambridge: Cambridge University Press, pp. 23-41.
- Fulkerson, William, Roddie R. Judkins and Manoj K. Sanghvi. 1991. Energy from fossil fuels. In *Energy for planet earth*, readings from *Scientific American*. New York, NY: W. H. Freeman, pp. 83-94.
- Ross, Marc H., and Daniel Steinmeyer. 1991. Energy for industry. In *Energy for planet earth*, readings from *Scientific American*. New York, NY: W. H. Freeman, pp. 35-48.
- **Davis, Ged R. 1991. Energy for planet earth. In *Energy for planet earth*, readings from *Scientific American*. New York, NY: W. H. Freeman, pp. 1-10.
- **Holdren, John P. 1991. Energy in transition. In *Energy for planet earth*, readings from *Scientific American*. New York, NY: W. H. Freeman, pp.119-130. Include the associated chapter, Epilogue: Moving toward greater energy efficiency, by Robert Malpas, pp. 131-132.
- **Spitler, E. E. 1992. The energy business and conservation. In M. Oelschlaeger, ed. *After Earth Day: Continuing the conservation effort*. Denton, TX: University of North Texas Press, pp. 106-119.