



Greenhouse Energy Efficiency - Additional resources Assembled by Scott Sanford January 2017

Energy Conservation for Commercial Greenhouses, Bartok Jr, J.W., NRAES-3, NRAES, Ithaca, NY, 2001. Available at: http://palspublishing.cals.cornell.edu

Greenhouse Engineering, Aldrich, R.A, J.W. Bartok Jr, NRAES-33, NRAES, Ithaca, NY, 1994. Out of Print but available at:

http://host31.spidergraphics.com/nra/doc/Fair%20Use%20Web%20PDFs/NRAES-33_Web.pdf

"Grower 101: Heating Systems - Maintenance Pays", Bartok Jr, J.W., Greenhouse Product News, September 2003, Vol 13, No. 9, Pg 56-59. Available at: http://www.gpnmag.com/article/grower-101-heating-systems-maintenance-pays/

Glazing Materials, Structural Design, and Other Factors Affecting Light Transmission in Greenhouses, William J. Roberts, Bioresource Engineering, Rutgers University, October 1998. Available at: http://aesop.rutgers.edu/~horteng/Workshop/Lecture3.pdf

Root Zone Heating for Greenhouse Crops, Steve Diver, ATTRA, April 2002. Available at: http://www.eduinca.net/elibrary/ru/book/download/id/7816

Compost Heated Greenhouses, Steve Diver, Bulletin CT137, ATTRA, January 2001. Available at: https://attra.ncat.org/attra-pub/viewhtml.php?id=57

Solar Greenhouse Resource List, Barbara Bellows, ATTRA, April 2003. This resource list discusses basic principles of solar greenhouse design, as well as different construction material options. Books, articles and Web sites, and computer software relevant to solar greenhouse design are all provided in a resource list. Available at: http://attra.ncat.org/attra-pub/solar-gh.html

Greenhouse Energy – Resource site with links to many publications on Energy Conservation and Alternative Energy Sources for Greenhouses. Michigan State University. Available at: http://www.flor.hrt.msu.edu/energy

Introduction to Greenhouse Production, R.W. McMahon, 3rd Ed., Ohio State University, 2011. Available at: http://estore.osu-extension.org/Introduction-to-Greenhouse-Production-P309.aspx

Hydroponic Tomato Production in Greenhouses and Evaluation of Air-Recirculation System to Reduce Heating and Cooling Energy Costs – 2003, J. Wills, G. Honea, S. Ray, M. Buschermohle, A. Straw, C. Sams, University of Tennessee, 2003. Available at: http://bioengr.ag.utk.edu/Extension/ExtProg/Vegetable/year/VegInitReport03/19hydroponic_tomato_production_in_.htm

Energy Efficiency in Greenhouses, Scott Sanford, University of Wisconsin Extension Reducing Greenhouse Energy Consumption – An Overview, Bulletin No. A3907-01, http://learningstore.uwex.edu/Assets/pdfs/A3907-01.pdf

Greenhouse unit heaters – Types, placement & efficiency, Bulletin No. A3907-02 http://learningstore.uwex.edu/Assets/pdfs/A3907-02.pdf

Using curtains to reduce greenhouse heating and cooling costs, Bulletin No. A3907-03, http://learningstore.uwex.edu/Assets/pdfs/A3907-03.pdf

Biomass Energy for Heating Greenhouses, Bulletin No. A3907-04 http://learningstore.uwex.edu/Assets/pdfs/A3907-04.pdf

Biomass Heating in Greenhouses: Case Studies, Bulletin No. A3907-05, http://learningstore.uwex.edu/Assets/pdfs/A3907-05.pdf

Links:

- National Greenhouse Manufacturers Association http://www.ngma.com
- Plant and Life Science Publishing (formerly Natural Resources, Agriculture and Engineering Service) http://palspublishing.cals.cornell.edu Resource site with engineering and conference publications.
- National Sustainable Agriculture Information Service (ATTRA) http://www.attra.org
- Rutgers, Horticultural Engineering http://aesop.rutgers.edu/~horteng/
- Cornell University Controlled Environment Agriculture http://www.cornellcea.com
- Greenhouse Product News Many articles on energy related topics and greenhouse management. http://www.gpnmag.com/