

BRM2130 Management in Practice - Bioenergy and Environmental Change

[View Online](#)

A. Karp, N. G. Halford. 2011. Energy Crops. Cambridge: Royal Society of Chemistry.
http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3037234320002418&institutionId=2418&customerId=2415.

Agar, David, and Margareta Wihersaari. 2012. 'Torrefaction Technology for Solid Fuel Production'. *GCB Bioenergy* 4 (5): 475–78.
<https://doi.org/10.1111/j.1757-1707.2011.01141.x>.

Atkinson, C.J. 2009a. 'Establishing Perennial Grass Energy Crops in the UK: A Review of Current Propagation Options for Miscanthus'. *Biomass and Bioenergy* 33 (5): 752–59.
<https://doi.org/10.1016/j.biombioe.2009.01.005>.

———. 2009b. 'Establishing Perennial Grass Energy Crops in the UK: A Review of Current Propagation Options for Miscanthus'. *Biomass and Bioenergy* 33 (5): 752–59.
<https://doi.org/10.1016/j.biombioe.2009.01.005>.

Berndes, G., Hoogwijk, M., and van den Broek, R. 2003. 'The Contribution of Biomass in the Future Global Energy Supply: A Review of 17 Studies'. *Biomass and Bioenergy* 25 (1).
<http://www.sciencedirect.com/science/article/B6V22-47P8Y07-1/2/f263e45ffc5d8ffb47bee6fe79e6ce4f>.

Börjesson, Pål. 1999. 'Environmental Effects of Energy Crop Cultivation in Sweden—I: Identification and Quantification'. *Biomass and Bioenergy* 16 (2): 137–54.
[https://doi.org/10.1016/S0961-9534\(98\)00080-4](https://doi.org/10.1016/S0961-9534(98)00080-4).

Bridgwater, A. V. 1995. 'The Technical and Economic Feasibility of Biomass Gasification for Power Generation'. *Fuel* 74 (5).
<http://www.sciencedirect.com/science/article/B6V3B-4002DTC-68/2/d31b1e7d7acb2aef55a219dc217f32fb>.

Bridgwater, A. V. and Cottam, M. -L. 1991. 'Opportunities for Biomass Pyrolysis Liquids Production and Upgrading'. *Energy and Fuels* 6.
<http://pubs.acs.org/doi/pdf/10.1021/ef00032a001>.

Brown, Robert C. 2011. Thermochemical Processing of Biomass. Vol. Wiley series in renewable resources. Oxford: Wiley-Blackwell.
http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3037243470002418&institutionId=2418&customerId=2415.

Chang, M. C. Y. 2007. 'Harnessing Energy from Plant Biomass'. *Current Opinion in*

Chemical Biology 11 (6).

<http://www.sciencedirect.com/science/article/B6VRX-4PXNHW8-1/2/37f6ca75172e00dbf258c9a1c4dacc0d>.

Coombs, J. and Hall, K. 1998. 'Chemicals and Polymers from Biomass'. Renewable Energy 15 (1-4).

<http://www.sciencedirect.com/science/article/B6V4S-3V3YVYH-9/2/5e0a12d2668caa462a3c36fe52e73b7f>.

Demirbas, A. H. and Demirbas, I. 2007. 'Importance of Rural Bioenergy for Developing Countries'. Energy Conversion and Management 48.

http://www.sciencedirect.com/science?_ob=MImg&_imagekey=B6V2P-4NJX404-3-J&_cdi=5708&_user=427455&_pii=S0196890407000763&_origin=&_coverDate=08%2F31%2F2007&_sk=999519991&view=c&wchp=dGLzVlz-zSkWW&md5=d027ad0cc776ca29c4e8395af22a6993&ie=/sdarticle.pdf.

Deutsche Gesellschaft
fu

" r Sonnenenergie and ECOFYS (Firm). 2005. Planning and Installing Bioenergy Systems: A Guide for Installers, Architects, and Engineers. Sterling, VA: Earthscan.

Duffy, M. D. and Nanhou, V. Y. 1996. 'Costs of Producing Switchgrass for Biomass in Southern Iowa'. In Trends in New Crops and New Uses. ASHS Press.

<http://www.hort.purdue.edu/newcrop/ncnu02/pdf/duffy-267.pdf>.

Glithero, Neryssa J., Paul Wilson, and Stephen J. Ramsden. 2013a. 'Prospects for Arable Farm Uptake of Short Rotation Coppice Willow and Miscanthus in England'. Applied Energy 107 (July): 209–18. <https://doi.org/10.1016/j.apenergy.2013.02.032>.

———. 2013b. 'Straw Use and Availability for Second Generation Biofuels in England'. Biomass and Bioenergy 55 (August): 311–21.
<https://doi.org/10.1016/j.biombioe.2013.02.033>.

Goldemberg, J., Coelho, S. T., Nastari, P. M., and Lucon, O. 2004. 'Ethanol Learning Curve - the Brazilian Experience'. Biomass and Bioenergy 26 (3).

<http://www.sciencedirect.com/science/article/B6V22-49FGMV9-2/2/a19dbe9db824510c468a04fb67aa0595>.

Gordon G. Allison. 2011. 'Application of Fourier Transform Mid-Infrared Spectroscopy (FTIR) for Research into Biomass Feed-Stocks'. In Fourier Transforms - New Analytical Approaches and FTIR Strategies, edited by Goran Nikolic. InTech. <https://doi.org/10.5772/15785>.

Hatti-Kaul, R., Tornvall, U., Gustafsson, L., and Borjesson, P. 2007. 'Industrial Biotechnology for the Production of Bio-Based Chemicals - a Cradle-to-Grave Perspective'. Trends in Biotechnology 25 (3).

<http://www.sciencedirect.com/science/article/B6TCW-4MV719J-1/2/4030ca1aeb038bc4a201a4782d67878d>.

Heaton, E. A., Long, S. P., Voigt, T. B., Jones, M. B., and Clifton-Brown, J. 2004. 'Miscanthus for Renewable Energy Generation: European Union Experience and Projections for Illinois'.

Mitigation and Adaptation Strategies for Global Change 9 (4).
<http://dx.doi.org/10.1023/B:MITI.0000038848.94134.be>.

Kleiner, K. 2009. 'The Bright Prospect of Biochar'. Nature Publishing Group.
<http://dx.doi.org/10.1038/climate.2009.48>.

Lewandowski, I., Clifton-Brown, J. C., Scurlock, J. M. O., and Huisman, W. 2000. 'Miscanthus: European Experience with a Novel Energy Crop'. Biomass and Bioenergy 19 (4).
<http://www.sciencedirect.com/science/article/B6V22-41M3H0T-1/2/0edf73794793a26a5c8069fccc134be>.

Mascia, Peter N.,

Ju

"Jørgen Scheffran, and Jack Milton Widholm, eds. 2010. Plant Biotechnology for Sustainable Production of Energy and Co-Products. Vol. Biotechnology in agriculture and forestry. Heidelberg: Springer.

McKendry, P. 2002. 'Energy Production from Biomass (Part 1): Overview of Biomass'. Bioresource Technology 83 (1).
<http://www.sciencedirect.com/science/article/B6V24-44YWKMG-2/2/c47f2362a0950bc2ac19171540c3fbda>.

Nass, L.L., Pereira, P.A.A., and Ellis, D. 2007a. 'Biofuels in Brazil: An Overview'. Crop Science 47 (6). <http://crop.scijournals.org/cgi/content/abstract/cropsci;47/6/2228>.

———. 2007b. 'Biofuels in Brazil: An Overview'. Crop Science 47 (6).
<http://crop.scijournals.org/cgi/content/abstract/cropsci;47/6/2228>.

Nonhebel, S. 2005. 'Renewable Energy and Food Supply: Will There Be Enough Land?' Renewable and Sustainable Energy Reviews 9 (2).
<http://www.sciencedirect.com/science/article/B6VMY-4C5MGS4-1/2/370fb6dade53b035a2bd069adc568140>.

Pogson, Mark, Astley Hastings, and Pete Smith. 2013. 'How Does Bioenergy Compare with Other Land-Based Renewable Energy Sources Globally?' GCB Bioenergy 5 (5): 513–24.
<https://doi.org/10.1111/gcbb.12013>.

Prochnow, A., Heiermann, M., Plöchl, M., Amon, T., and Hobbs, P. J. 2009. 'Bioenergy from Permanent Grassland - A Review: 2. Combustion'. Bioresource Technology 100.
<http://www.sciencedirect.com/science/article/B6V24-4WR2BYV-5/2/9e9a478280de4b3475f3766b3f1c6dcc>.

Prochnow, A., Heiermann, M., Plöchl, M., Linke, B., Idler, C., Amon, T., and Hobbs, P. J. 2009. 'Bioenergy from Permanent Grassland - A Review: 1. Biogas'. Bioresource Technology 100.
<http://www.sciencedirect.com/science/article/B6V24-4WR2BYV-4/2/778f32a68b5f79a9baa301acb5225a3d>.

Radetzki, M. 1997. 'The Economics of Biomass in Industrialized Countries: An Overview'.

Energy Policy 25 (6).

<http://www.sciencedirect.com/science/article/B6V2W-3SN6MNX-M/2/c995b1a02f70b913164bd64c202ccc0a>.

Robbins, Mark P., Geraint Evans, John Valentine, Iain S. Donnison, and Gordon G. Allison. 2012. 'New Opportunities for the Exploitation of Energy Crops by Thermochemical Conversion in Northern Europe and the UK'. *Progress in Energy and Combustion Science* 38 (2): 138-55. <https://doi.org/10.1016/j.pecs.2011.08.001>.

Robert C. Brown. 2011. *Thermochemical Processing of Biomass* (Ebook). Hoboken, NJ: John Wiley & Sons.

http://eu.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=3039314910002418&institutionId=2418&customerId=2415.

Robertson, G. P., V. H. Dale, O. C. Doering, S. P. Hamburg, J. M. Melillo, M. M. Wander, W. J. Parton, et al. 2008. 'AGRICULTURE: Sustainable Biofuels Redux'. *Science* 322 (5898): 49-50. <https://doi.org/10.1126/science.1161525>.

Rösch, C., Skarka, J., Raab, K., and Stelzer, V. 2009. 'Energy Production from Grassland - Assessing the Sustainability of Different Process Chains under German Conditions'.

Biomass and Bioenergy 33.

<http://www.sciencedirect.com/science/article/B6V22-4V64YKF-1/2/04b45967fa6487e1cb8c1c6251542e89>.

Samson, R., Mani, S., Boddey, R., Sokhansanj, S., Quesada, D., Urquiaga, S., Reis, V., and Lem, C. H. 2005. 'The Potential of C4 Perennial Grasses for Developing a Global BIOHEAT Industry'. *Critical Reviews in Plant Sciences* 24 (5).

<http://www.informaworld.com/10.1080/07352680500316508>.

Sherrington, C., Bartley, J., and Moran, D. 2008. 'Farm-Level Constraints on the Domestic Supply of Perennial Energy Crops in the UK'. *Energy Policy* 36 (7).

<http://www.sciencedirect.com/science/article/B6V2W-4SDFS97-3/2/6d83b3b469580979e9fa0a7eeff6633>.

Stewart, C.N. 2007. 'Biofuels and Biocontainment'. *Nature Biotechnology* 25.

The Economics of Climate Change: The Stern Review. 2007. Cambridge, UK: Cambridge University Press. http://www.hm-treasury.gov.uk/stern_review_report.htm.

Tilman, D., R. Socolow, J. A. Foley, J. Hill, E. Larson, L. Lynd, S. Pacala, et al. 2009. 'Beneficial Biofuels--The Food, Energy, and Environment Trilemma'. *Science* 325 (5938): 270-71. <https://doi.org/10.1126/science.1177970>.

Valentine, John, John Clifton-Brown, Astley Hastings, Paul Robson, Gordon Allison, and Pete Smith. 2012. 'Food vs. Fuel: The Use of Land for Lignocellulosic "next Generation" Energy Crops That Minimize Competition with Primary Food Production'. *GCB Bioenergy* 4 (1): 1-19. <https://doi.org/10.1111/j.1757-1707.2011.01111.x>.

Van Loo, Sjaak, Jaap Koppejan, and International Institute for Environment and Development. 2010. *The Handbook of Biomass Combustion and Co-Firing*. London: Earthscan.

Venturi, P., Gigler, J. K., and Huisman, W. 1999. 'Economical and Technical Comparison between Herbaceous (*Miscanthus x Giganteus*) and Woody Energy Crops (*Salix Viminalis*)'. *Renewable Energy* 16 (1-4).
<http://www.sciencedirect.com/science/article/B6V4S-3V3YWDV-70/2/f0081dfb790def30abff2992091b3d9e>.

Venturi, P. and Venturi, G. 2003. 'Analysis of Energy Comparison for Crops in European Agricultural Systems'. *Biomass and Bioenergy* 25 (3).
<http://www.sciencedirect.com/science/article/B6V22-482YWFR-2/2/fa1a82d638c041beecc9c2958ea26b5f>.

Vermerris, Wilfred. 2008. *Genetic Improvement of Bioenergy Crops*. New York: Springer.

Wiley: *Chemometrics*, 2nd Edition - Matthias Otto. n.d.

Yuan, J. S., Tiller, K. H., Al-Ahmad, H., Stewart, N. R., and Stewart Jr, C. N. 2008. 'Plants to Power: Bioenergy to Fuel the Future'. *Trends in Plant Science* 13 (8).
<http://www.sciencedirect.com/science/article/B6TD1-4T0M62M-1/2/e7b488c2db722d360d19a0e90e8aaacf>.