

# Study Materials

## Basic course reading materials

This list contains the basic syllabus for the course. In addition, each lecture/session suggests reading materials that can be checked in [lectures pages](#). Also, there is some complementary readings in the section [Additional Resources](#). In order to prepare the final exam, there is a list of [topics](#).

## Course Books

Pelkonen, P. et al. eds. (2014) *Forest Bioenergy for Europe*. What Science can tell us, 4. European Forest Institute. pp 109. [\[PDF\]](#)[\[PDF\]](#)

## Background Materials

For those not familiarized with the main concepts related to biomass production for energy, feel free to use these materials to expand your background:

Röser, D., Asikainen, A., Raulund-Rasmussen, K. and Stupak, I. eds. (2008) *Sustainable use of forest biomass for energy a synthesis with focus on the Baltic and Nordic region*. Vol. 12. Springer Science & Business Media [\[e-brary link\]](#)

Richardson, J., Björheden, R., Hakkila, P., Lowe, A. T., & Smith, C. T. (Eds.). (2006). *Bioenergy from sustainable forestry: guiding principles and practice* (Vol. 71). Springer Science & Business Media. [\[e-library link\]](#)

Schubert R et al (2010) *Future bioenergy and sustainable land use*, 365 pp. Earthscale [\[e-brary link\]](#)

Energy from the forest- Benefits for the local economy [\[Youtube\]](#)

Machines in biomass procurement operations [\[YouTube\]](#) [ForestEnergy Portal](#)

Harvesting of fast growing plantations [\[Youtube\]](#) at *Salixodlarna*

## Lecture Materials

Along the lectures, there has been recommended and complementary readings that are related to the topic of each session. This is the list of the compulsory topics mentioned in the lectures:

Chapter 1, Markets and policy. In: Pelkonen, P. et al. eds. (2014) *Forest Bioenergy for Europe*. What Science can tell us, 4. European Forest Institute. pp 109. [\[PDF\]](#)

Chapter 4. Development of bioenergy trade in four different settings–The role of potential and policies. Thrän, D., Hennig, C., Thiffault, E., Heinimö, J., & Andrade, O. (2014). In *International Bioenergy Trade* (pp. 65-101). Springer Netherlands. [\[RG\]](#) [\[printouts\]](#)

Helby, P., Börjesson, P., Hansen, A. C., Roos, A., Rosenqvist, H., & Takeuchi, L. (2004). Market Development Problems for Sustainable Bio-energy Systems in Sweden:(The BIOMARK Project). Environmental and Energy Systems Studies, Lund University. [\[PDF\]](#)

Roos, A., Graham, R. L., Hektor, B., & Rakos, C. (1999). Critical factors to bioenergy implementation. *Biomass and Bioenergy*, 17(2), 113-126. [\[PDF\]](#)

Mola-Yudego, B., Dimitriou, I., Gonzalez-Garcia, S., Gritten, D., & Aronsson, P. (2014). A conceptual framework for the introduction of energy crops.*Renewable Energy*, 72, 29-38. [\[PDF\]](#)

McCormick, K., & Käberger, T. (2005). Exploring a pioneering bioenergy system: The case of Enköping in Sweden. *Journal of Cleaner production*, 13(10), 1003-1014. [\[PDF\]](#)

Arevalo, J., Ochieng, R., Mola-Yudego, B., & Gritten, D. (2014). Understanding bioenergy conflicts: Case of a jatropa project in Kenya's Tana Delta. *Land Use Policy*, 41, 138-148 [\[PDF\]](#)

Gritten, D., Saastamoinen, O., & Sajama, S. (2009). Ethical analysis: A structured approach to facilitate the resolution of forest conflicts. *Forest Policy and Economics*, 11(8), 555-560 [\[PDF\]](#)

Selkimäki, M., Mola-Yudego, B., Röser, D., Prinz, R., & Sikanen, L. (2010). Present and future trends in pellet markets, raw materials, and supply logistics in Sweden and Finland. *Renewable and Sustainable Energy Reviews*, 14(9), 3068-3075. [\[PDF\]](#)

Mola-Yudego, B., Selkimäki, M., & González-Olabarria, J. R. (2014). Spatial analysis of the wood pellet production for energy in Europe. *Renewable Energy*, 63, 76-83. [\[PDF\]](#)

Heinimö, J. (2008). Methodological aspects on international biofuels trade: international streams and trade of solid and liquid biofuels in

Finland. *Biomass and Bioenergy*, 32(8), 702-716. [PDF]

Albrecht, M. (2016). The role of translation loops in policy mutation processes: State designated Bioenergy Regions in Germany. *Environment and Planning C: Government and Policy*, 0263774X16669354 [PDF] [author copy PDF]

Leduc S, Wetterlund E, Dotzauer E, Schmidt J, Natarajan K, and Khatiwada D. 2015. Policies and Modeling of Energy Systems for Reaching European Bioenergy Targets. Handbook of Clean Energy Systems. <http://onlinelibrary.wiley.com/doi/10.1002/9781118991978.ches102/abstract>

World energy outlook. Paris: *International Energy Agency* (2016) [PDF] and Market Report Analysis and Forecasts till 2021 [PDF]

Khanam, T., Matero, J., Mola-Yudego, B., Sikanen, L., & Rahman, A. (2014). Assessing external factors on substitution of fossil fuel by biofuels: model perspective from the Nordic region. *Mitigation and Adaptation Strategies for Global Change*, 1-16. [PDF]