
References

- [1]. Sri Lanka Sustainable Energy Authority, *Sri Lanka energy balance 2016*, Colombo, 2016.
- [2]. T. Nitkiewicz and A. Ociepa-Kubicka, “Eco-investments -life cycle assessment of different scenarios of biomass combustion,” *Scienco Ecol Chem Eng*, vol. 2, no. 2, pp. 307-322, 2018.
- [3]. P. Friedlingstein *et al.*, “Climate–Carbon cycle feedback analysis: Results from the CMIP model intercomparison,” *Journal of climate*, vol. 19, pp. 3337-3353, 2006.
- [4]. D. C. Ducat and P. A. Silver, “Improving carbon fixation pathways,” *Curr Opin Chem Biol.*; vol. 16, no. 3/4, pp. 337–344, 2012.
- [5]. D. M. H. S. K. Ranasinghe, “Climate change mitigation – Sri Lanka’s perspective,” In 15th International Forestry and Environment Symposium, 2010, pp. 290-296.
- [6]. European Commission Joint Research Centre Institute for Environment and Sustainability, “Trends in global CO₂ emissions” *2016 Report*, PBL publication number: 2315, 2016.
- [7]. D. Hall, F. Rosillo-Calle, R. H. Williams, and J. Woods, “Biomass energy supply and prospects” in *Renewable energy: sources for fuel and electricity*, T.B. Johansson, H. Kelly, A. K. N. Reddy, R. H. Williams, Eds. Washington, DC: Island Press, 1993, pp. 593–651.
- [8]. P. Goldmark, “Forest biomass and air emissions,” Washington State department of natural resources, Washington, 2010.
- [9]. R. Matthews *et al.*, “Carbon Impacts of Using Biomass in Bioenergy and Other Sectors: Forests”, The Research Agency of the forestry commission, United Kingdom, Report URN 12D/085, 2014.
- [10]. Partnership for Policy Integrity, *Carbon emissions from burning biomass for energy*, USA, 2015.
- [11]. J. Unosson *et al.*, “Exposure to wood smoke increases arterial stiffness and decreases heart rate variability in humans,” *Particle and Fibre Toxicology*, vol. 10, no. 20, 2013.
- [12]. K. R. Smith, “Health, energy, and greenhouse-gas impacts of biomass combustion in household stoves,” *Energy for Sustainable Development*, vol.1, no. 4, pp. 23–29, 1994.
- [13]. E. Jachniak and M. Holubčik, “Characteristics of pellets made from different plant materials,” in *Proc. ECOpole*. pp. 95-101, DOI: 10.2429/Proc.2015.9(1)012.
- [14]. D. Vlachos¹, E. Iakovou¹, A. Karagiannidis, and A. Toka¹, “A Strategic Supply Chain Management Model for Waste Biomass Networks” in Proceedings of the 3rd International Conference on Manufacturing Engineering (ICMEN), Chalkidiki, Greece, 2008, pp.794-808.

- [15]. M. E. Puettmann and M. Milota, "Life cycle assessment for wood-fired boilers used in the wood products industry," *Forest Products Journal*, Vol. 67, No. 5/6, pp. 381-389, 2017.
- [16]. C. Perilhon, D. Alkadee, G. Descombes, and S. Lacour, "Life cycle assessment applied to electricity generation from renewable biomass.," *Energy Procedia, Elsevier*, 2012, 18, pp.165-176.
- [17]. P. Goglio and M. Owende, "Research Note: IT Information Technology and the Human Interface A screening LCA of short rotation coppice willow (*Salix* sp.) feedstock production system for small-scale electricity generation." *Bioprocess Biosyst Eng.*, vol.103, no.3, pp. 389-394, 2009, doi: 10.1016/j.bioprocesseng.2009.03.003
- [18]. T. Nitkiewicz and A.C. Kubicka, "Impact of supply chain solutions on environmental performance of biomass use – LCA-based research case," *Valahian Journal of Economic Studies*, Volume 8(22), Issue 1, pp. 57-66, 2017.
- [19]. E. Furuholt, "Life cycle assessment of gasoline and diesel", *Resources, Conservation and Recycling*, vol. 14, pp. 251-263. 1995.
- [20]. *ILCD Handbook: General guide for life cycle assessment - detailed guidance*, European Commission, Publications Office of the European Union, 2010.
- [21]. J. B. Guinée *et al.*, *Handbook on life cycle assessment: Operational guide to the ISO standards*. Kluwer Academic Publishers, 2002.
- [22]. Danish Ministry of Environment, *The product, functional unit and reference flows in LCA environmental*, 2004.
- [23]. A. M. Tillman, T. Ekvall, H. Baumann, and T. Rydberg, "Choice of system boundaries in life cycle assessment," *J. Cleaner Prod.*, Vol. 2, no. 1, pp. 21-29, 1994.
- [24]. V. Aymard and V. Botta-Genoulaz, "Normalization in life cycle assessment: consequences of new European factors on decision making" in 6th International Conference on Information Systems, Logistics and Supply-chain ILS Conference 2016, Bordeaux, France, 2016.
- [25]. Ministry of Environment, *Sri Lanka's second national communication on Climate Change*, Climate Change Secretariat, Ministry of Environment, 2011.
- [26]. P. L. Spath, M. K. Mann, and D. R. Kerr, "Life cycle assessment of coal-fired power production," National Renewable Energy Laboratory, U.S. Department of Energy Laboratory, Task No. BP911030, June 1999.
- [27]. T. S. Chungsangunsit, "Emission assessment of rice husk combustion for power production," *International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering*, vol. 3, no:5, pp. 625-630, 2009.
- [28]. A. A. Raheem and M. A. Kareem, "Optimal raw material mix for the production of rice husk ash blended cement," *International Journal of Sustainable Construction Engineering & Technology*, vol. 7, no. 2, pp. 77-93, 2017.

- [29]. I. Gravalos, P. Xyradakis, D. Kateris, T. Gialamas, D. Bartzialis, and K. Giannoulis, “An experimental determination of gross calorific value of different agroforestry species and bio-based industry residues,” *Natural Resources*, vol. 7, pp. 57-68, 2016.
- [30]. J. E. Wimberly, “Technical handbook for the paddy rice postharvest industry in developing countries,” International Rice Research Institute, Los Banos, Philippines ISBN : 9711040751, 1983.
- [31]. W. Azlina, W. A. K. Ghani, G. Silva, and A. B. Alias, “Physico-chemical characterizations of sawdust-derived biochar as potential solid fuels,” *The Malaysian Journal of Analytical Sciences*, vol. 18, no. 3, pp. 724 – 729, 2014.
- [32]. *Ceypetco product specifications*, Ceylon Petroleum Corporation, Sri Lanka, Apr.2018. [Online]. Available: <http://ceypetco.gov.lk/ceypetco-products/>
- [33]. Agriculture and Environmental Statistics Division Department of Census and Statistics, *Paddy production by season and by district*, Colombo, Sri Lanka, 2015.
- [34]. *Detail information on Rubber in Sri Lanka*, Department of Rubber Development, Department of Census and Statistics Colombo, Sri Lanka, Feb.2018. [Online]. Available: <https://statistics.gov.lk/agriculture/rubber/all.pdf>
- [35]. R. M. Amarasekara and P. Jayaratna, “Resource potential of sawdust and its spatial distribution in Kandy district,” Integrated Development Association, Kandy, Sri Lanka, July, 2002.
- [36]. A. Rabl, A. Benoist, D. Dron, B. Peuportier, V. Spadaro, and A. Zoughaib, “Editorials: How to account for CO₂ emissions from biomass in an LCA,” *The International Journal of Life Cycle Assessment*, Vol. 12, no. 5, p. 281, 2007.
- [37]. E. Johnson, “Goodbye to carbon neutral: Getting biomass footprints right. Environmental Impact Assessment Review,” Vol. 29, pp. 165-168, Nov. 2008, doi:10.1016/j.eiar.2008.11.002.
- [38]. C. Brenda, V. Zalinge, Q. Y. Feng, M. Aengenheyster, and H. A. Dijkstra, “Determining the point of no return in climate change,” *Earth Syst. Dynam.*, vol. 8, pp. 707–717, 2017.
- [39]. Intergovernmental Panel on Climate Change, *The physical science basis summary for policymakers*, IPCC Secretariat, Geneva, Switzerland, p.18, 2007.
- [40]. T. Walker, P. Cardellichio, J. S. Gunn, D. S. Saah, and J. M. Hagan, “Carbon accounting for woody biomass from Massachusetts (USA) managed forests: a framework for determining the temporal impacts of wood biomass energy on atmospheric greenhouse gas levels”, *J. Sust. Forest*, vol. 32, pp. 130–158, 2013.

- [41]. J. McKechnie, S. Colombo, J. Chen, W. Mabee, and H. L. MacLean, “Forest bioenergy or forest carbon? Assessing trade-offs in greenhouse gas mitigation with wood-based fuels” *Environ. Sci. Technol.*, vol. 45, pp. 789–95, 2011.
- [42]. “European Parliament Directive 2009/28/EC of the European Parliament and of the Council of 23 April 2009 on the promotion of the use of energy from renewable sources and amending and subsequently repealing Directives 2001/77/EC and 2003/30/EC.” Official Journal of the European Union L 140/16: 5.6.2009. Publications Office, Luxembourg. Accessed: May, 09, 2018. [Online]. Available: <http://data.europa.eu/eli/dir/2009/28/oj/>.
- [43]. P. Dwivedi, R. Bailis, T. G. Bush, and M. Marinescu. “Quantifying GWI of wood pellet production in the southern United States and its subsequent utilization for electricity production in The Netherlands/Florida,” *Bioenergy Research*, vol. 4, no.3, pp. 180-192, 2011.
- [44]. *Interactive tariff and trade data 2017*, U.S. International Trade Commission, Washington, D.C., USA, sep. 2018. [Online]. Available: <https://dataweb.usitc.gov/>.
- [45]. D. Brack, “Woody biomass for power and heat impacts on the global climate,” Environment, Energy and Resources Department, The Royal Institute of International Affairs, London, UK, ISBN 9781784131906, February, 2017.
- [46]. P. Jongpradist, W. Homtragoon, R. Sukkarak, W. Kongkitkul, and P. Jamsawang, “Efficiency of “Rice husk ash as cementitious material in high-strength cement-admixed clay,” *Advances in Civil Engineering*, Article ID 8346319, 2018.
- [47]. United Nation’s Development Programme, *Promoting sustainable biomass energy production and modern bio-energy technologies in Sri Lanka*, Colombo, 2013.