

Conversion ratios for Bonsucro Credit Trading Platform

<i>Conversion From/To</i>	<i>Unit</i>	<i>Conversion rate</i>
Ha to Cane	Ha to T ^a	70[1]
Cane to Bagasse	T to T	3.7[2]
Sugar Cane to Raw Sugar	T to T	8.33[2]
Sugar Cane to Molasses	T to T	21.27[2]
Sugar Cane to Ethanol	T to m ³	21.74[2]
Raw Sugar to Molasses	T to T	2.55[3]
Raw Sugar to PLA pellets	T to T	1.6[4], [5]
Raw Sugar to Refined Sugar	T to T	1.07[2]
Molasses to Ethanol	T to m ³	7.83[2]
Bagasse to Electricity	T to kWh	80[2]
Bagasse to Paper	T to T	3.3[2]
Ethanol to PE Pellets	m ³ to T	2.21[6], [7]

^aT: metric tonne

- [1] International Sugar Organization, “International Survey of Agricultural and Industrial Yields of Sugar Crops,” 2018. [Online]. Available: [https://www.isosugar.org/publication/93/international-survey-of-agricultural-and-industrial-yields-of-sugar-crops---mecas\(17\)17](https://www.isosugar.org/publication/93/international-survey-of-agricultural-and-industrial-yields-of-sugar-crops---mecas(17)17).
- [2] M. R. L. V. Leal, “Technical report on sugarcane processing (personal communication),” 2019.
- [3] SUCDEN, “Process flowcharts - Sugar - Products & Services - Sucden,” 2019. [Online]. Available: <https://www.sucden.com/en/products-and-services/sugar/process-flowcharts/>. [Accessed: 27-Aug-2019].
- [4] B. P. Calabia and Y. Tokiwa, “Production of d-lactic acid from sugarcane molasses, sugarcane juice and sugar beet juice by *Lactobacillus delbrueckii*,” *Biotechnol. Lett.*, vol. 29, no. 9, pp. 1329–1332, Jul. 2007.
- [5] K. Sakai, M. Taniguchi, S. Miura, H. Ohara, T. Matsumoto, and Y. Shirai, “Making Plastics from Garbage,” *J. Ind. Ecol.*, vol. 7, no. 3–4, pp. 63–74, Jun. 2003.
- [6] A. N. M. Kristina Qvint and A. N. Melander, “Assessing the Sustainability of First Generation Ethanol for Bioethylene Production,” 2016.
- [7] S&P Global Platts, “Petrochemical industry conversions,” 2017.